



THE PRESIDENCY

REPUBLIC OF SOUTH AFRICA

SOCIO-ECONOMIC IMPACT ASSESSMENT SYSTEM (SEIAS)

REVISED (2019): FINAL IMPACT ASSESSMENT TEMPLATE --PHASE 2

NAME OF THE PROPOSAL:

Regulations for Hazardous Chemical Agents

to replace the

Regulation for Hazardous Chemical Substances, 1995 under the Occupational

Health & Safety Act, 85 of 1993.

- 1. Please DO NOT ALTER the template and questionnaire
- 2. Date must be clearly indicated
- 3. Draft SEIAS report should have a watermark word DRAFT indicating the version and should be accompanied by the supporting documents (draft proposal, M&E plan and pieces of research work)
- 4. FINAL report will be in PDF format and will be inclusive of the sign-off
- 5. FINAL report will have the approval stamp of the DMPE on the front cover and will include the signoff
- 6. Sign off forms are only valid for a period of six months.

PART ONE: ANALYSIS FOR FINAL SEIAS REPORT

Please keep your answers as short as possible. Do not copy directly from any other document.

1. Conceptual Framework, Problem Statement, Aims and Theory of Change

1.1. What socio-economic problem does the proposal aim to resolve?

The use of chemicals in the workplace have detrimental effects on the occupational health and safety of employees. In the process of executing their work, which involve using chemicals, employees in the chemical sector get exposure which in some cases lead to immediate death, in other cases exposure lead to illnesses while in still other cases employees get delayed health impact until old age. It is known through research that when worker's health is poor, their work output is negatively impacted as they would be absent from work or present but with limited capabilities to work. The aims of this proposal are therefore:

- To amend the 1995 Regulation for Hazardous Chemical Substances so that it increases the occupational safety of employees in line with global advancements in chemical production, storage, transportation and other processes
- To update South Africa's chemical processes with the Occupational Exposure Limit (OELs) and
- To align South Africa's chemical sector processes in working with chemical, in line with the United Nations' Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

It is estimated by the International Labour Organization (ILO) that between 200 and 500 workrelated deaths related to exposure to hazardous chemicals occur each year across the world. In 2002 the Department of Employment and Labour declared the Chemical Sector in South Africa as the fourth highest risk sectors due to large numbers of incidents and diseases emanating from this sector. As part of the efforts to address this, the Department signed a Health and Safety Accord with the sector in November 2013. Data from the Compensation Fund, regulator of the Compensation of Occupational Injuries and Diseases of the Department of Employment and Labour, indicates the occupational exposure to chemicals resulting in adverse effects, dermatitis and occupational asthma due to chemical exposure in work places in South Africa. The Figure below shows that chemical exposure contributed higher to occupational exposure cases between the years 2016 and 2020.

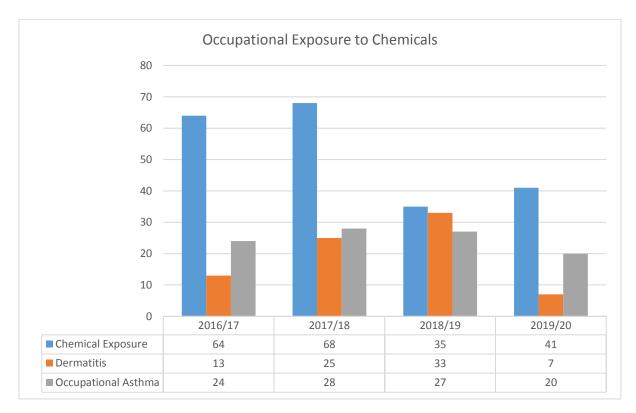


Figure: Occupational exposure to chemicals

This data indicates the highest cases of chemical exposure of workers in 2017/18 at 68, followed by 64 workers in the previous year (2016/17). While the numbers are fluctuating, the last two years (2018/19 and 2019/20) saw a decrease in the number of workers exposed to chemicals, a significant decrease from the two preceding years. It should be understood that all these reported cases for "chemical exposure", dermatitis" and occupational asthma not only resulted in pain and suffering of the affected workers but also loss of productivity to the employers and medical costs. It is also generally accepted that occupational diseases are under reported compared to occupational injuries. This data does not include data from Mutuals (Rand **Mutual Association**- RMA or Federated Employers **Mutual Association** - FEMA).

Everyone comes into contact with chemicals every day, this is called chemical exposure. Although some chemical exposures under certain conditions are safe, others are not. Hazardous chemicals can get into the body through breathing or swallowing/ingesting chemicals or if they are absorbed through the skin. People respond to chemical exposures in many different ways. Several factors play a part in the adverse effects that chemicals may have in human bodies, including:

- The type of chemical
- The chemical properties
- Quantity of the chemical
- How long the contact lasts
- How often exposure occurs
- How the chemical enters the body, Agency for Toxic Substance and Disease Registry, (ATSDR, 2014)

Thousands of workers are still getting ill while some even die as a result of exposure to hazardous chemicals, and workers are being "exposed to levels of chemicals that are legal, but not safe, (Smith, 2014). The European Chemicals Agency estimates that there are more than 144 000 man-made chemicals in existence, although not all are currently in production or use. Smith, 2014, further holds that the Unites Sates of America's Department of Health estimates 2 000 new chemicals are being released every year.

Many employees are exposed to a variety of substances at work (e.g. chemicals, fumes, dusts, fibres) which can, under some circumstances, have several harmful effects on their health. These are called 'hazardous chemical agents'. If exposure to a hazardous chemical agent is not appropriately limited and controlled, it may cause ill health to employees in a number of ways. The chemical agents enter the body by:

- Inhaling the chemical agent through breathing;
- Chemical agent being absorbed through the skin;
- Chemical agent being swallowed;
- Acting directly on the body at the point of contact.

Some illnesses or damage caused by exposure to hazardous agents from workplace exposure may only appear after a long time after the first exposure, called a latent affect. Therefore, it is important to know in advance how to protect the health of employees working with hazardous chemical agents and also of other people who may be affected by the work being carried out at a workplace.

The International Labour Organisation (ILO, 2010) published a comprehensive but not exhausted list of occupational diseases caused by exposure to hazardous chemicals agents arising from work activities, some of the diseases are listed below:

- Diseases caused by beryllium, carbon disulfide and cadmium or its compounds
- Diseases caused by phosphorus and chromium or its compounds
- Diseases caused by manganese and arsenic or its compounds
- Diseases caused by mercury or its compounds
- Diseases caused by lead and fluorine or its compounds
- Diseases caused by halogen derivatives of aliphatic or aromatic hydrocarbons
- Diseases caused by benzene or its homologues
- Diseases caused by nitro- and amino-derivatives of benzene or its homologues
- Diseases caused by nitro-glycerine or other nitric acid esters
- Diseases caused by alcohols, glycols or ketones
- Diseases caused by asphyxiants like carbon monoxide, hydrogen sulphide, hydrogen cyanide or its derivatives
- Diseases caused by acrylonitrile or oxides of nitrogen
- Diseases caused by vanadium and antimony or its compounds
- Diseases caused by hexane or mineral acids
- Diseases caused by pharmaceutical agents
- Diseases caused by nickel or its compounds
- Diseases caused by thallium, osmium and selenium or its compounds
- Diseases caused by platinum and copper or its compounds
- Diseases caused by tin and zinc or its compounds
- Diseases caused by phosgene or ammonia
- Diseases caused by corneal irritants like benzoquinone
- Diseases caused by isocyanates and pesticides
- Diseases caused by sulphur oxides and chlorine
- Diseases caused by organic solvents
- Diseases caused by latex or latex-containing products
- Diseases caused by other chemical agents at work not mentioned in the preceding items where a direct link is established scientifically, or determined by methods appropriate to national conditions and practice, between the exposure to these chemical agents arising from work activities and the disease(s) contracted by the worker.

According to the ILO, this new list of occupational diseases reflects the state-of-the-art development in the identification and recognition of occupational diseases in the world, (ILO, 2010). This list illustrates the far-reaching health effect exposure to chemicals in the work environment may have. Several chemicals such as arsenic, benzene, cadmium and mercury (WHO) has been highlighted as exuding adverse influence on health by the World Health Organisation (WHO)

This proposal to amend the Regulations mainly focuses on two "new" areas of concern that requires intervention and is not adequately addressed in the 1995 Regulations for Hazardous Chemical Substances, namely:

- a) Incorporation of the Globally Harmonised System for classification and labelling of hazardous chemicals and
- b) Updated Occupational Exposure Limits (OEL) and Biological Exposure Index (BEI's)

This assessment will elaborate on these two areas as the proposal seeks to improve chemical management in South African economy.

Internationally the concept of exposure limits for chemicals in the workplace is commonly used to protect the health of employees as is the case in the following countries:

- Germany uses the MAK (Maximum Workplace Concentration)
- The United Kingdom uses the WELs (Workplace Exposure Limits)
- The USA uses TLV's not legislated (Threshold Limit Values) and legislated PELs (Permissible Exposure Limits)
- The South African Department of Mineral Resources use OELs (Occupational Exposure Limits)

Occupational Exposure Limits (OELs) serve as health-based benchmarks against which measured or estimated workplace exposures can be compared. In the years since the introduction of OELs to public health practice, both in developed and developing countries, have established processes for deriving, setting, and using OELs to protect workers exposed to hazardous chemicals. These processes vary widely and have thus resulted in a confusing international landscape for identifying and applying such limits in workplaces. The occupational hygienist will encounter significant overlap in coverage among organizations for many chemicals, while other important chemicals have OELs developed by few, if any, organizations (Deveau, 2016).

The challenge faced by all other countries including South Africa is the need for OEL to be assessed and updated on a regular basis. The need stems from new risks associated with specific chemicals, new industrial processes and equipments, updated methods to control and mitigate exposure to chemicals.

The first systematic collection of "modern" OELs was developed in 1946 by an ACGIH subcommittee (that eventually became the TLV Chemical Substances Committee), which had been directed to derive and maintain such a system of exposure limits. The ACGIH committee on Industrial Hygiene Codes had been charged "to promote uniformity of thought and action with regard to adoption of rules and regulations for the control of industrial environmental conditions affecting health (Borak, 2015).

The most important barrier to developing an OEL is lack of data that are relevant to human exposures in occupational settings. Many describe new technologies and data analytic methods that may be useful in overcoming data issues. The use of better models that address both uncertainty and variability in biological systems and exposure assessment offers particular promise (Borak, 2015).

The hazardous properties of chemicals such as flammability, corrosion, explosion, environmental effects, mutagenicity need to be communicated to the person handling the substance during manufacturing, packing, importing, exporting, storage and use. Traditionally communication of the hazardous properties is done through the label on the chemical's container and the Safety Data Sheet (SDS) provided along with the product.

There are different laws on how to identify the hazardous properties of chemicals globally called 'classification' and how information about these hazards is then passed to users through labels and safety data sheets for workers. This can be confusing because the same chemical can have different hazard descriptions in different countries. For example, a chemical could be labelled as 'toxic' in one country but not in another. This also act as a barrier to international trade. The Earth Summit held in Rio de Janeiro in 1992 and the Word Summit held in Johannesburg in 2002 recognised this as an important global issue.

Given the expanding international market in chemical substances and mixtures to help protect people and the environment, and to facilitate trade, the United Nations has therefore developed a 'Globally Harmonised System' (GHS) on classification and labelling. The United Nations' Globally Harmonised System of Classification and Labelling of Chemicals provides a harmonised basis for globally uniform physical, environmental, and health and safety information on hazardous chemical substances and mixtures.

The GHS is a single worldwide system for classifying and communicating the hazardous properties of industrial and consumer chemicals. GHS sits alongside the UN 'Transport of Dangerous Goods' system. The UN brought together experts from different countries to create the GHS with the aim to have uniformity:

- criteria for classifying chemicals according to their health, environmental and physical hazards; and
- hazard communication requirements for labelling and safety data sheets.

The UN GHS aims to ensure that information on the hazardous properties of chemicals is available throughout the world in order to enhance the protection of human health and the environment during the handling, transport and use of chemicals. GHS also provides the basis for harmonising regulations on chemicals at national, regional and global level. This is important for facilitating trade. At a more basic level, GHS also aims to provide a structure for countries that do not yet have a classification and labelling system.

For importers and exporters of chemicals, a big challenge is that currently many different countries have different systems for classification and labelling of chemical products, requiring them to comply to all. In addition, several different systems can exist within the same country. This situation has been expensive for governments to regulate and enforce, costly for importing and exporting companies who have to comply with many different systems, and confusing for workers who need to understand the hazards of a chemical in order to work safely. Implementation of GHS will help in promoting regulatory efficiency, facilitating trade, easing compliance, reducing classification and labelling costs, providing improved and consistent hazard information, encourage safe transport, handling and use of chemicals, promoting better emergency response to chemical incidents and reducing the need for animal testing. (CCOHS, n.d.)

The available information and studies reveals vast economic consequences of unsound chemicals management. The work of the WHO (2011) and UNEP (2010) provides figures on health and environmental effects. Estimates for a subset of chemicals of which the health effects have been estimated, i.e. including only chemicals involved in unintentional acute and

occupational poisonings, a limited number of occupational carcinogens and particulates and lead, correspond to a total of 964,000 deaths (1.6% of total deaths) and 20,986,153 DALYs (1.4% of total DALYs) in 2004. According to UNEP (2013) a preliminary view of the global costs of environmental effects due to chemicals can be established. Volatile organic compounds (VOCs) account for USD 236.3 billion and mercury emissions account for USD 22 billion of environmental costs due to human activity. (UNEP, 2013)

The sound management of chemicals, including hazardous wastes, aims to prevent and, where this is not feasible, to reduce or minimize the potential for exposure of people and the environment to toxic and hazardous chemicals as well as chemicals suspected of having such properties. It includes prevention, reduction, remediation, minimization and elimination of risks during the life cycle production, storage, transport, use and disposal of chemicals and chemicals in products and articles. It involves the application of the best managerial practices of chemicals, which requires strengthened governance and improved techniques and technologies at each stage of the life cycle (UNEP, 2013).

Given the background above on the challenges faced by occupational and public health professionals, the need to harmonise chemical identification is still important today as it was when the ILO adopted the relevant Convention.

In aligning to international peers, WHO and ILO standards, South Africa has to adopt systems of ensuring workers' safety from chemical exposure and had been using the old Regulations which are overtaken by dynamic developments in the chemical sector. The aim of this SEIAS proposal is therefore to address the following issues:

- To promote employee occupational safety, health and wellness as well as to improve their working condition.
- To keep employees safe and informing them about their duties and responsibilities with regards to their health and safety at a workplace.
- To minimise the negative impact of increased absenteeism in the workplaces, the losses in compensation for occupational diseases or injuries and healthcare expenditure caused by the exposure to HCA.
- To minimise the burden of health risk associated with workplace, number of work-related deaths and immense suffering caused for workers' families.

1.2 What are the main root causes of the problem identified above?

Uncontrolled release and associated exposure resulting from the inappropriate manufacturing, storing, transport, use and disposal of Hazardous Chemical Agents

| What socio-economic problem does | What are the main roots or causes of the |
|--|--|
| the proposal aim to resolve Employees contracting occupational diseases caused by their exposure to hazardous chemicals in the work environment are negatively impacted on their ability to work and earn a living due to ill health. Exposure can occur during manufacturing, importing, packaging, storage, transport or working with chemicals during various industrial processes. Occupational diseases induced by hazardous chemical exposure include occupational lung cancer, dermatitis, cancer, byssinosis, occupational asthma, irritant induced asthma, silicosis, work aggravated asthma, upper respiratory tract disorders, mutagenetic affects and physical injuries, such and skin burns, eye damage and chemical burns to the upper respiratory tract. | problem Chemicals are extremely wildly used in a number of industries and daily life, as we know it cannot assist without chemicals, such as soap, petrol, detergents, various gasses, paint and many more. Exposure to chemicals occur during various processes including manufacturing, importing, packaging, storage, transport of chemicals. Hazardous chemicals are also used in industry specifically for the hazardous properties it exhibits such as oxidisers, acids and alkalis. In many instances chemicals are specifically deigned to have hazardous properties, such as herbicides, pesticides, fertilisers, flammable and explosive chemicals oxidisers and so on. Work with hazardous chemicals is a necessity in many industries, but the work should be made a safe as possible not to adversely affect the health and safety of employees and the self-employed. |
| | |

1.3 Summarise the aims of the proposal and how it will address the problem in no more than five sentences.

- The proposal aims to update the 1995 Regulations for Hazardous Chemical Substances, affording employees protection for their health and safety.
- The proposal also aims to bring the classification of hazardous chemicals and the labelling thereof in line with an international standard, affording South African employees similar protection and allowing for easy import and export from and to other courtiers respectively on the same system. the public. Please describe how the problem identified could be addressed if this proposal is not adopted. At least one of the options should involve no legal or policy changes, but rather rely on changes in existing programmes or resource allocation.

1.4 Please describe how the problem identified could be addressed if this proposal is not adopted. At least one of the options should involve no legal or policy changes, but rather rely on changes in existing programmes or resource allocation.

| Option 1. | Continue with the enforcement of the Regulation for Hazardous Chemical Substances, 1995 under the Occupational Health & Safety Act |
|-----------|---|
| Option 2. | Develop a national policy for controlling chemical risks in the occupational setting. |

PART TWO: IMPACT ASSESSMENT

- 2. Policy/Legislative alignment with other departments, behaviours, consultations with stakeholders, social/economic groups affected, assessment of costs and benefits and monitoring and evaluation.
 - 2.1. Are other government laws or regulations linked to this proposal? If so, who are the custodian departments? Add more rows if required.

| Government | Custodian | Areas of Linkages | Areas of conflict |
|------------------------|----------------|---------------------|-------------------|
| legislative prescripts | Department | | |
| Occupational Health | Department of | Section 8: Need to | None |
| and Safety Act, 1993 | Employment and | establish | |
| (Act.85 of 1993) | Labour | occupational risk | |
| | | and provide control | |
| | | measures | |
| Atmospheric Pollution | Department of | Extraction control | None |
| Prevention Act no.45 | Environmental | measures to ensure | |
| of 1965, repealed by | Affairs | compliance with | |
| the Environmental | | exposure limits | |
| Management: Air | | complies with the | |
| Quality Act, No. 59 of | | requirements of | |
| 2008 | | this Act | |
| Prohibition on the | Department of | Act lists remedies | None |
| Import, Export, | Environmental, | that are prohibited | |
| Possession, | Fisheries and | from being handled | |
| Acquisition, Sale, Use | Forestry | in any ways in | |
| and Disposal of | | workplaces | |
| Agricultural Remedies | | | |

| of the Fertilizers, Farm | | | |
|--------------------------------------|---------------------------|------------------------|------------------------|
| Feeds, Agricultural | | | |
| Remedies and Stock | | | |
| Remedies Act 36 of | | | |
| 1947 | | | |
| Waste Classification | Department of | HCAs waste | |
| and Management | Environmental | disposal: ensuring | |
| Regulations of the | Fisheries and | that this is done | |
| National | Forestry | following this Act | |
| Environmental | | and regulations | |
| Management: Waste | | | |
| Act, No. 59 of 2008 | | | |
| Labour Relations Act, | Department of | | None |
| No. 66 of 1995 | Employment and | | |
| | Labour | | |
| Employment Equity | Department of | | |
| Act, No. 55 of 1998 | Employment and | | |
| | Labour | | |
| General | Department of | Reporting of an | None |
| Administrative | Employment and | illness as a result of | |
| Regulations, 2003 of | Labour | exposure to the | |
| the Occupational | | HCAs | |
| Health and Safety Act, | | | |
| 1993 | | | |
| Facilities Regulations | Department of | Ensuring that | None |
| of the Occupational | Employment and | changing rooms are | |
| Health and Safety Act, | Labour | away from fugitive | |
| 1993 | | contamination with | |
| | | the HCAs | |
| Compensation for | Department of | | No conflict, alignment |
| Occupational Injuries | Employment and | | ensured. |
| and Diseases Act, No. | Labour | | |
| 130 1993 | | | |
| National Road Traffic | Department of | Transporting of | None |
| Act, 1996 | Transport | HCAs as part of | |
| | | 'dangerous goods' | |
| Phasing-out and | Department of | Control and | None |
| Management of | Environmental | regulation of ozone | None |
| Ozone Depletion | Fisheries and | depleting | |
| Substance | Forestry | chemicals | |
| Regulations, | Torestry | chemicals | |
| | | | |
| ITAC Import and | Department of Trade | Import and export | None |
| Export Regulations | and Industry | of chemicals | |
| Fertilizers, Farm | Department of | Control of | None |
| Feeds, Agricultural | Agriculture | Pesticides and | |
| Remedies and Stock | | herbicides | |
| Remedies Act | | | |
| Air Quality | Department of | | None |
| Regulations, National | Environmental | | |
| | | | |
| Environmental | Ficharias and | | |
| Environmental Management Act etc. | Fisheries and Forestry | | |

- 2.2. Proposals inevitably seek to change behaviour in order to achieve a desired outcome. Describe (a) the behaviour that must be changed, and (b) the main mechanisms to bring about those changes. These mechanisms may include modifications in decision-making systems; changes in procedures; educational work; sanctions; and/or incentives.
 - a) What and whose behaviour does the proposal seek to change? How does the behaviour contribute to the socio-economic problem addressed?

The proposal aims the improve the behaviour of unsafe exposure to hazardous chemicals in the workplace by workers and employers. The protection of employees' health in all chemical sectors and any employee exposed to chemicals during work, which includes most employees in South Africa as everyone is exposed to chemicals at some point even if it is only to cleaning chemicals, hand sanitizers or pesticides. The behaviour of working unsafely with chemicals or disposing unsafely of chemical waste has far reaching impact of the country's economic and social wellbeing as it has detrimental effects to the health of employees and can have devastating effect on the environment. If well regulated, the chemical sector would benefit from a healthy workforce, as it is very costly to all parties when employees develop occupational diseases and they lose work-time and wages due to their health compromised. Employers on the other hand will experience production loss, income and further investments loss, which in-turn affect the economy at large due to low GDP for example.

b) How does the proposal aim to bring about the desired change?

Firstly, the proposal will update the 1995 Regulations for Hazardous Chemical Substances and align legal requirements with the internationally implemented Globally Harmonised System for Classification and labelling of hazardous chemicals. Adoption and enforcement of this harmonized system will put the classification of chemicals and the labelling of chemical in South Africa on par with other countries worldwide that has implemented the system. Countries such as the European Union, the United Kingdom, Canada, China, Brazil, Russia, Japan, Zambia and Chile amongst others.

Secondly, the proposal will update the occupational exposure limits and biological exposure index from the 1995 Regulations for Hazardous Chemical Substances.

2.3. Consultations

a) Who has been consulted inside of government and outside of it? Please identify major functional groups (e.g. business; labour; specific government departments or provinces; etc.); you can provide a list of individual entities and individuals as an annexure if you want. The proposed regulations were published for public comments on 14 September 2018 for a 90-day period to allow for interested and affected parties to comment and provide inputs. The Department of Employment and Labour also embarked on hosting workshops to present the Draft regulations in Johannesburg, Durban and Port Elizabeth during October and November 2018.

The draft regulations were also presented to the Multi-Stakeholder Committee on Chemicals Management (MCCM) hosted by the Department of Environmental Fisheries and Forestry on 3 December 2018. Members were also invited at this meeting to provide comments and inputs on the proposal after the meeting with a given due date. Government Departments represented at the MCCM were: Department of Water and Sanitation, Department of Health, Department of Transport, Department of Trade, Industry and Competition, Department of Agriculture, Land Reform and Rural Development and Department of Basic Education. NGO's and Industry Associations represented include CAIA, RPMASA, Groundworks and SAPEMA.

Stakeholders at both workshops and MCCM agreed that the review of the 1995 Regulations were overdue and that alignment to the international standards as proposed is needed in the best interest of the South African chemical sector specifically and industry in general.

| Department's name | What do they see as main <u>benefits</u> , <u>Implementation/</u> <u>Compliance costs</u> and risks? | Do they <u>support</u> or <u>oppose</u> the proposal? | What <u>amendments</u> do they propose? | Have these amendments been <u>incorporated</u> in your proposal? If yes, under which section? |
|--|--|--|---|---|
| Department of Agriculture | In line with legislative developments to also incorporate GHS implementation in the agricultural sector through requirements of pesticides, herbicides and fungicides. No cost incurred | Supported | none | NA |
| Department of Environment, Fisheries and Forestry | In line with legislative developments to also incorporate GHS implementation for chemical waste. | Supported | Timeframe for compliance, update of prohibited agents | Yes Regulation 21 |

Consulted Government Departments, Agencies and Other Organs of State

| Department of Health | Alignment with regards to Persistent Organic Pollutants (POPs) No cost incurred Protection of the health of employees, will lessen the burden on the | Supported | none | |
|--|--|-----------|---|-------------------------|
| | national health system No cost incurred | | | |
| Department of Transport | In line with legislation regulation the transport of "Dangerous Goods". No cost incurred | Supported | none | |
| Department of Trade and Industry | In line with Regional developments regarding chemical s management No cost incurred | Supported | none | |
| Nelson Mandela Bay Municipality | Industry standardisation through GHS. Cost of compliance as an employer | Supported | Provision of a table of content (index) to the regulations | Yes (Table of contents) |

Consulted stakeholders outside government

| Name of Stakeholder | What do they see as main <u>benefits</u> , <u>Implementation/</u> <u>Compliance costs and</u> <u>risks?</u> | Do they support or oppose the proposal? | What <u>amendments</u> do they propose? | Have these amendment s been <u>incorporate</u> <u>d</u> in your proposal? |
|---|---|---|---|--|
| AMA – Aerosols Manufacturing | Industry standardisation on classification and | Supported | Remove "carcinogen" definition | No |
| Association | international alignment. | | Transition period for classifying single substances Clarify the term "agent" | Yes Regulation 18 (2) No |
| Banking Association SA | No clearly indicated | Support | Inclusion of Definition of AIA | No. Provided in Act |
| RPMASA – Responsible Packaging Management SA | Industry standardisation on classification and international alignment. | Support | Inclusion of Environmental risk criteria. | Yes Annexure 1 |

| | Support inclusion of CAS numbers | | | |
|-------------------------------------|--|------------------|--|-------------------------|
| | | | Clarify non-toxic | Yes Annexure 4 |
| | | | Addition to training requirements | No |
| | | | Use wording "Shall" rather than "must" | No |
| ESKOM | Updated OEL's required in Industry | Supported | Provision of definition of "action level" | No |
| | | | Definition for competent person | No |
| | | | TWA definition to include 40 hours | Yes Annexure 2 |
| | | | Update reference to OEL tables | Yes Annexure 2 |
| UCT – University of Cape Town | Not clearly indicated in comments | Not indicated | Change assessment to "health risk assessment" | No |
| | | | "UN" before GHS Classification | No |
| | | | Taking hazardous chemical not in Annexure 1 into account | Yes Annexure 1 |
| | | | Clarify STEL and Ceiling limit | Yes Annexure 2 |
| | | | Clarify "prohibited agent" | Yes Regulation 1 |
| | | | Labelling of piping modified | YesRegulati on14B |
| | | | Check referencing to tables | Yes Annexure 2 |
| SAPIA – SA Petroleum Industry | Industry standardisation through GHS and updated limits of | Supported | Carc definition to include the wording " <u>chemical</u> agent" | Yes Regulation1 |
| Association | exposure | | Household chemicals to contain negligible trace amount of hazardous agents – should be risk base | Yes Regulation 5 |
| | | | Remove reference to EH42 form definition | Yes Regulation 1 |
| | | | "C" notation use for ceiling limit | Yes Annexure 2 |
| | | | "sensitizer" definition aligned to GHS | Yes Regulation 1 |
| | | | Transitional arrangements to moving over to GHS required (18 months) | Yes Regulation 18 |
| | | | Clarify reference to "transport of dangerous goods" | Yes Regulation 1 |

| BUSA – Business | Not clearly indicated in | Support | Household chemicals to | Yes |
|-----------------|---|---------|---|---|
| | comments submitted | Support | contain negligible trace | Regulation5 |
| Unity SA | comments submitted | | amount of hazardous | Regulations |
| | | | | |
| | | | agents – should be risk | |
| | | | base | Maa |
| | | | "sensitizer" definition | Yes |
| | | | aligned to GHS | Regulation 1 |
| | | | Clarify reference to | Yes |
| | | | "transport of dangerous | Regulation 1 |
| | | | goods" | |
| | | | Transitional period to | Yes |
| | | | moving over to GHS | Regulation |
| | | | required (18 months) | 18 |
| | | | Provision of full address | Yes |
| | | | on label unreasonable | Regulation |
| | | | | 14 B |
| | | | Include "STEL" am "C" | Yes |
| | | | notification in table | Regulation 1 |
| | | | Consider timeframes in | Yes |
| | | | obtaining lab results | Annexure 4 |
| Engen | Updated OEL's required | Support | Regulations scope limited | No |
| | in Industry. Alignment with international product | | to health hazards | |
| | | | Remove reference to | Yes |
| | | | EH42 form definition | Regulation 1 |
| | standards | | No reference should be | Yes |
| | | | made to asbestos | Regulation 1 |
| | | | abatement regulations | |
| | | | Provision of full address | Yes |
| | | | on label unreasonable | Regulation |
| | | | | 14B |
| | | | Include "STEL" am "C" | Yes |
| | | | notification in table | Annexure 2 |
| | | | Correct numbering in | Yes |
| | | | annexure 3 | Annexure 3 |
| KEMi – Swedish | Alignment with | Support | Shorten SDS definition | No |
| chemical agency | international | | Add exclusion of | Yes |
| | classification, labelling | | pharmaceuticals to scope | Annexure 4 |
| | and SDS standards | | Reference categories | Yes |
| | | | during classification | Regulation |
| | | | _ | 14 |
| | | | Stipulate label size to | Yes |
| | | | Supulate label size to | |
| | | | ensure readability | Annexure 4 |
| LISAM Systems | International | Support | | |
| • | International standardisation through | Support | ensure readability | Annexure 4 |
| | | Support | ensure readability Implementation period to moving over to GHS | Annexure 4 No – |
| | standardisation through | Support | ensure readability Implementation period | Annexure 4 No – provided for |
| | standardisation through | Support | ensure readability Implementation period to moving over to GHS required (suggest 24 months) | Annexure 4 No – provided for |
| | standardisation through | Support | ensure readability Implementation period to moving over to GHS required (suggest 24 months) GHS training for ALL | Annexure 4 No – provided for 18 months |
| | standardisation through | Support | ensure readability Implementation period to moving over to GHS required (suggest 24 months) | Annexure 4 No – provided for 18 months |
| • | standardisation through | Support | ensure readability Implementation period to moving over to GHS required (suggest 24 months) GHS training for ALL employees, exposed or not | Annexure 4 No – provided for 18 months |
| | standardisation through | Support | ensure readability Implementation period to moving over to GHS required (suggest 24 months) GHS training for ALL employees, exposed or | Annexure 4 No – provided for 18 months No |

| •KZN "Chemical Agent" No SAIOH- Southern Updated OEI's and BEI's Supported Definition for "Chemical Agent" No African Institute for Occupational Hegine urgently required Supported Definition for "Chemical Agent" No AND Saiosh - South African Institute for occupational health and safety No No No Saiosh - South African Institute for occupational health and safety No need for Y & Z in table 4 Annexure 2 Where applicable OELs should be in both ppm and mgm ³ Yes Yes No reference to tables annexures Annexure 2 No reference to Throughout Correct reference to cables annexures Annexure 2 No reference should be made to asbestos abatement regulations Alignment of definition of correct atmospheric pressure in formula Yes Annexure 2 Not indicated Not clear from commental Management Air Quality Act" Yes Sasol Not indicated Not clear from comments Support Clearing thread thread to absect annexure 2 Kefer to the "National Environmental Management Air Quality Act" Yes Annexure 2 Alignment of definitions for "Throughout abatement regulation 1 Annexure 2 Sinfor thread to ab defined R | Maria D. Halana | | C | | |
|---|-------------------------|-------------------------|-----------|--|---------------------|
| SAIOH- Southern African Institute for Occupational Hygiene Updated OEI's and BEI's urgently required Supported Definition for "Chemical agent" not needed No AND Anno Refer to HCA in text not Chemical Yes AND No staggered over time, with indicated "cut-off" dates. No Saiosh - South African Institute for occupational health and safety No Yes Moderfontein Laboratories Not clear from comments No Yes No tidicated Not clear from comments Support Correct atmospheric med to asbestos throughout abatement regulations Yes Modderfontein Laboratories Not indicated Not clear from comments Support Correct atmospheric pressure in formula from comments Yes Sasol Not indicated Not clear from comments Support Correct atmospheric pressure in formula from comments Yes Sasol Not indicated Not clear from comments Not clear from comments Not clear from comments Not clear from comments Not clear from comments Yes Threshold to b indicated a "entry level" in scope No – provided for 18 months) No – provided for | Master Builders -KZN | | Support | Remove definition of "Chemical Agent" | No |
| SAIOH-Southern African Institute for Occupational Hygiene Updated OEI's and BEI's urgently required Supported Definition for "Chemical agent" not needed No AND Refer to HCA in text not Chemical Yes Saiosh - South African Institute for occupational health and safety No No Saiosh - South African Institute for occupational health and safety No Yes Moderfontein Laboratories Not clear from comments No treference to tables annexures Yes Modderfontein Laboratories Not clear from comments Support Correct treference to tables annexures Yes Modderfontein Laboratories Not indicated Not clear from comments Support Correct atmospheric pressure in formula from comments Yes Sasol Not indicated Not clear from comments Support Correct atmospheric pressure in formula from comments Yes Sasol Not indicated Not clear from comments Not clear from comments Not clear from comments Yes Threshold to b indicated a "entry level" in scope Implementation period to moving over to GHS required (suggest 36 months) No – provided for 18 months | | | | Implementation period | No |
| SAIOH-Southern Updated OEI's and BEI's urgently required Supported Definition for "Chemical agent" not needed No AND Refer to HCA in text not Throughout Throughout Throughout Saiosh - South African Institute for occupational health and safety No No No Saiosh - South African Institute for occupational health and safety Need for Y& 2 in Yes No to close the safety No test the safety Yes No reference to Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric quality Act" Annexure 2 Modderfontein Laboratories Not indicated Support Correct atmospheric pressure in formula Annexure 4 Annexure 2 Sasol Not indicated Not indicated Not clear from comments Support Correct atmospheric pressure in formula Annexure 4 Annexure 4 Sasol Not indicated Not clear from comments Support Correct atmospheric pressure in formula Annexure 2 Annexure 2 Refer to the "National Environmental Management Air Quality Act" HSG 173 to be removed, Pes Regulation 1 Modderfontein Laboratories Not indicated Not clear from comments Form or moved <t< th=""><th></th><th></th><th></th><th>to moving over to GHS</th><th></th></t<> | | | | to moving over to GHS | |
| SAIOH- Southern African Institute for Occupational Hygiene Updated OEI's and BEI's urgently required Supported Definition for "Chemical agent" not needed No AND AND Implementation No Saiosh - South African Institute for occupational health and safety No No No Saiosh - South African Institute for occupational health and safety No No Annexure 2 Moderfontein Laboratories Not Icear from comments OH & SA should be in both ppm and mg/m³ No need for Y & Z in table 4 Annexure 2 Modderfontein Laboratories Not clear from comments Support Correct reference to tables annexure 2 Yes Annexure 2 Modderfontein Laboratories Not clear from comments Support Correct atmospheric pressure in formula HAGI T3 to be removed, EH42 to be defined Presure in formula Regulation 1 Yes Annexure 4 Sasol Not indicated Not clear from comments Not clear from comments Yes Annexure 2 Modderfontein Laboratories Not indicated Not clear from comments Yes Annexure 2 Modderfontein Laboratories Not indicated Not indicated Not indicated < | | | | required, staggered over | |
| African Institute for Occupational Hygiene urgently required agent" not needed Refer to HCA in text not Chemical Yes Throughout AND Implementation staggered over time, with Indicated "cut-off" dates. No Saiosh - South African Institute for occupational health and safety Yes Annexure 2 OH &SA should be in both ppm and mg/m³ Yes OH &SA should be in both ppm and mg/m³ Yes No reference should be made to asbestos abatement regulations Yes No creference should be made to asbestos abatement regulations Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric pressure in formula commental Management Air Quality Act" Yes Annexure 2 Sasol Not indicated Not clear for definition of "Intake" that was removed Yes Regulation 1 Include definition not clear "Intake" that was Yes Regulation 1 Include definition sfor "Intake" that was removed Yes Annexure 2 Sasol Not indicated Not clear formerts Ford 212 be defined Regulation 1 Yes Annexure 2 Throughout Include definition sfor "Intake" that was removed Yes Annexure 2 Annexure 2 Sasol Not indicated Not indicated No – provided for 18 months No – provided | | | | several years | |
| for Occupational Hygiene Refer to HCA in text not Chemical Yes Throughout AND Saiosh – South African Institute for occupational health and safety No No Saiosh – South African Institute for occupational health and safety No No No OH &SA should be in both ppm and mg/m³ Yes Annexure 2 Where applicable OELs should be in both ppm and mg/m³ Yes OH &SA should be in full Hyginamet of definition of "CARC" Yes No reference should be made to asbestos abbrement regulations Annexure 2 No reference should be made to asbestos abbrement regulations Throughout Alignment of definition of "CARC" Yes Annexure 2 Not clear from comments Support Correct atmospheric pressure in formula Annexure 4 Yes Annexure 4 Sasol Not indicated Not clear from comments Not clear from comments Support Correct atmospheric pressure in formula Annexure 4 Yes Annexure 2 Sasol Not indicated Not clear from comments Not clear from comments Yes Annexure 2 Threshold to bindicated a "entry levef" in scope Implementation period to moving over to GHS required (suggest 36 months) No – provided for 18 months | SAIOH- Southern | Updated OEI's and BEI's | Supported | Definition for "Chemical | No |
| Hygiene ANDChemicalThroughoutANDImplementationNoSaiosh - South African Institute for occupational health and safetyNo need for Y & Z in table 4NoSaiosh - South African Institute for occupational health and safetyVesNo need for Y & Z in table 4YesOH &SA should be in both ppm and mg/m³OH &SA should be in fullYesThroughoutCorrect reference to tables annexuresYesNo need for Y & ZYesNo reference should be made to asbestos abatement regulationsYesNo neexure 2No reference should be made to asbestos abatement regulationsYesAlignment Air Quality Act"YesNonexure 2Refer to the "National Environmental Management Air Quality Act"YesSasolNot indicatedNot clear from commentsSupportCorrect atmospheric Pressure in formula Include definition of YesYesSasolNot indicatedNot clear from commentsNot clear from etH42 to be defined ethed that was regulation 1 include definitions for "intake" that was regulation 1 removedYes Annexure 2Threshold to b indicated a "entry level" in scopeNo - provided for 18 monthsNo - provided for 18 months | African Institute | urgently required | | agent" not needed | |
| AND Implementation staggered over time, with indicated "cut-off" dates. No Saiosh – South African Institute for occupational health and safety No need for Y & Z in table 4 Annexure 2 Where applicable OELs should be in both ppm and mg/m ³ OH &SA should be in both ppm and mg/m ³ Yes OH &SA should be in both ppm and mg/m ³ OH &SA should be in both ppm and mg/m ³ Yes Modderfontein Laboratories Not clear from comments Support Yes Refer to the "National Environmental Management Air Quality Act" Yes Annexure 2 Sasol Not indicated Not clear from comments Support Correct atmospheric Yes Annexure 4 Sasol Not indicated Not clear from comments Not clear from comments Support Correct atmospheric Yes Regulation 1 "intake" that was regulation 1 Include definitions for "intake" that was regulation 1 Regulation 1 Yes "Sind" definition not clear Yes Regulation 1 Regulation 1 Yes "Intake" that was regulation 1 Include definitions for "intake" that was regulation 1 Regulation 1 "Sind" definition not clear Yes Annexure 2 "Kin" definition not clear Yes Annexure 2 "Skin" definition no | for Occupational | | | Refer to HCA in text not | Yes |
| AND staggered over time, with indicated "cut-off" dates. No Saiosh - South African Institute for occupational health and safety Yes No need for Y & Z in table 4 Annexure 2 Where applicable OELs should be in both ppm and mg/m³ OH &SA should be in both ppm and mg/m³ Yes Annexure 2 OH &SA should be in full Yes No reference to tables annexures Yes Annexure 2 No reference should be made to asbestos Annexure 2 No reference should be made to asbestos Throughout Alignment of definition of that abatement regulations Yes Annexure 2 Refer to the "National Environmental Management Air Quality Act" Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric pressure in formula Annexure 4 Annexure 4 Sasol Not indicated Not clear from comments Support Carify OEL-8 hour Time - Wes Yes Gairy OEL-8 hour Time - Weighted Regulation 1 Include definition not clear Yes "Intrake" that was Regulation 1 Include definition not clear Yes "Interved" in scope Include definition not clear Yes Modderfontein Laboratories Not indicated Include definition not clear Y | Hygiene | | | Chemical | Throughout |
| Saiosh - South African Institute for occupational health and safetyNot clear from commentsSupportNo correct atmospheric pressure in formula Alignment of definition of Wes Annexure 2Yes Annexure 2Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formula Annexure 2Yes Annexure 2Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formula Alignment of definition of Wes Annexure 2Yes Annexure 2Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formula Annexure 4Yes Annexure 4SasolNot indicatedNot clear from commentsNot clear from commentsYes Annexure 2Regulation 1 magement Air Quality Act"Yes Pressure in formula Annexure 4Yes Annexure 2SasolNot indicatedNot clear from commentsNot clear from commentsYes Pressure in formula Annexure 2Modierfontein LaboratoriesNot indicatedNot clear from commentsYes Pressure in formula Annexure 2Yes Pressure in formula Annexure 2Modierfontein LaboratoriesNot indicatedNot clear from commentsYes Pressure in formula Annexure 2Threshold to b indicated a menzure 2Yes menzure 2Threshold to b indicated No ments)No - provided for 18 months | | | | Implementation | No |
| Saiosh - South African Institute for occupational health and safety No need for Y & Z in table 4 Yes Annexure 2 Where applicable OELs should be in both ppm and mg/m ³ Yes OH &SA should be in both ppm and mg/m ³ Yes OH &SA should be in full Yes No reference to tables annexures Yes No reference should be made to asbestos abatement regulations Yes Alignment of definition of "CARC" Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric pressure in formula Yes Sasol Not indicated Not clear from comments Not clear from Correct atmospheric pressure in formula Yes H42 to be defined Regulation 1 Include definition sfor "Intake" that was Yes "Include definition not clear from comments Yes Yes Clarify OEL-8 hour Time - weighted Yes Annexure 2 "Skin" definition not clear "Skin" definition not clear Yes Threshold to b indicated No - provided for 18 months No - provided for 18 months | AND | | | staggered over time, with | |
| African Institute for occupational health and safety Not clear from comments Support Ves Annexure 2 Where applicable OELs should be in both ppm and mg/m ³ Yes Throughout OH &&A should be in full Yes No reference should be made to asbestos abatement regulations Yes Alignment of definition of "CARC" Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric pressure in formula Yes Sasol Not indicated Not clear from comments Not clear from comments Not clear from comments Correct atmospheric pressure in formula Yes Include definitions for "Intake" that was removed Yes Annexure 4 Kegulation 1 Include definitions for "Intake" that was removed Yes Annexure 2 "Skin" definition not clear "Skin" definition not clear Yes Threshold to b indicated No - provided for inglementation period to moving over to GHS required (suggest 36 months) No - provided for | | | | indicated "cut-off" dates. | |
| for occupational health and safetyNot clear from commentsSupportCorrect reference to tables annexuresYesModderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes ThroughoutModderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formula Include definitions for "Intake" that was regulation 1 Include definitions for "Intake" that was regulation 1 Regulation 1 Include definitions for "Intake" that was regulation 1 Include definitions for "Intake" that was regulation 1 Include definition not clear Yes Hanexure 2SasolNot indicatedNot clear from commentsHSG 173 to be removed, Pressure in formula Include definitions for "Intake" that was regulation 1 removedYes Annexure 2 Pressure in formula Include definition not clear Yes Annexure 2Threshold to b indicatedNo - provided for Implementation period to moving over to GHS required (suggest 36 months)No - provided for Implementation period to moving over to GHS required for tagenta for moths)No - provided for to moving over to GHS required for tagenta for provided for tagenta for provided for to moving over to GHS required for tagenta for provided for tagenta for provided | Saiosh – South | | | No need for Y & Z in | Yes |
| health and safety should be in both ppm and mg/m³ Yes Throughout OH &SA should be in full Yes Throughout Correct reference to tables annexures Annexure 2 No reference should be made to asbestos abatement regulations Yes Throughout Alignment of definition of "CARC" Yes Modderfontein Laboratories Not clear from comments Support Correct atmospheric "Carect atmospheric pressure in formula Yes Sasol Not indicated Not clear from comments Not clear from comments Not clear from comments HSG 173 to be removed, EH42 to be defined Yes Regulation 1 Include definitions for "Intake" that was regulation 1 Yes Regulation 1 Yes Regulation 1 Threshold to b indicated No - provided for to moving over to GHS required (suggest 36 months) No - provided for | African Institute | | | table 4 | Annexure 2 |
| health and safetyshould be in both ppm and mg/m³should be in both ppm and mg/m³OH &SA should be in fullYes ThroughoutCorrect reference to tables annexuresYes Annexure 2No reference should be made to asbesto abatement regulationsYes ThroughoutAlignment of definition of "CARC"Yes Annexure 2Not clear from taboratoriesSupportCorrect atmospheric pressure in formulaYes Annexure 4SasolNot indicatedNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, (Tintake" that was regulation 1 include definitions for "Intake" that was regulation 1 removedYes Annexure 2ThroughoutZes Persure in formulaAnnexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, regulation 1 include definitions for "Intake" that was regulation 1 removedYes Annexure 2"Kin" definition not clear a "entry level" in scopeYes Annexure 2"Kin" definition period to moving over to GHS required (suggest 36 months)No - provided for 18 months | for occupational | | | Where applicable OELs | Yes |
| safety and mg/m³ and mg/m³ Yes OH &SA should be in full Yes Throughout Correct reference to tables annexures Annexure 2 No reference should be Yes Throughout Alignment of definition of Yes Alignment of definition of Yes Annexure 2 Refer to the "National Yes Review Refer to the "National Yes Review Correct atmospheric Yes Resol Not indicated Not clear Yes Sasol Not indicated Not clear From Correct atmospheric Yes Regulation 1 Include definitions for Yes Regulation 1 Include definitions for Yes Sasol Not indicated Not clear From Correct atmospheric Yes Clarify OEL-8 hour Time - weighted Annexure 2 "Skin" definition not clear Yes Threshold to b indicated No Include definition not clear Yes Annexure 2 "Kin" definition period No Innexure 2 "Skin" definition period No - | health and | | | | |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes ThroughoutModderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 2Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 4SasolNot indicatedNot clear from commentsNot clear from commentsKes correct atmospheric pressure in formulaYes Annexure 4Include definitions for "Include definitions for "Include definition not clear from commentsYes Annexure 2Throughout The should be made Annexure 4Not clear From CommentsNot clear H42 to be defined Annexure 2Throughout "Intake" that was removedYes Regulation 1Throughout Throughout Annexure 2Not clear (Tintake" that was removedYes Regulation 1Throughout Throughout Annexure 2Not clear (Tintake" that was removedYes Regulation 1Throughout Throughout Annexure 2Throughout Annexure 2No Annexure 2Throughout "Intake" that was required (suggest 36 months)No - provided for 18 months | safety | | | | |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formula HSG 173 to be removed, HSG 173 to be removed, H | | | | | Yes |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect reference to tables annexuresYes Annexure 2Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 2SasolNot indicatedNot clear from commentsNot clear from commentsKefer to the "National pressure in formulaYes Regulation 1 Annexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, removedYes Regulation 1 Annexure 4Clarify OEL-8 hour Time - weightedYes Annexure 2Regulation 1 Regulation 1 Include definitions for "Intake" that was removedYes Regulation 1 Regulation 1 Include definition not clear Yes Annexure 2Threshold to b indicated a "entry level" in scopeNo provided for provided for Implementation period Implementation period Implem | | | | | Throughout |
| Modderfontein LaboratoriesNot clear from commentsSupport from commentsCorrect atmospheric pressure in formula Include definitions for HSG 173 to be removed, EH42 to be defined Include definitions for "Regulation 1 Annexure 4SasolNot indicatedNot clear from commentsNot clear from commentsNot clear from commentsVes Regulation 1 Annexure 4Correct atmospheric pressure in formula Include definitions for "Regulation 1 Include definitions for "Regulation 1 Include definition not clear "Regulation 1 Include definition not clear "Skin" definition period Threshold to b indicated a "entry level" in scopeNoThreshold to b indicated a "entry level" in scopeNoNoImplementation period to moving over to GHS required (suggest 36 months)NoNo | | | | Correct reference to | |
| Modderfontein LaboratoriesNot clear from commentsSupport from commentsCorrect atmospheric pressure in formula Include definitions for HSG 173 to be removed, EH42 to be defined Include definitions for "Regulation 1 Annexure 4SasolNot indicatedNot clear from commentsNot clear from commentsNot clear from commentsVes Regulation 1 Annexure 4Correct atmospheric pressure in formula Include definitions for "Regulation 1 Include definitions for "Regulation 1 Include definition not clear "Regulation 1 Include definition not clear "Skin" definition period Threshold to b indicated a "entry level" in scopeNoThreshold to b indicated a "entry level" in scopeNoNoImplementation period to moving over to GHS required (suggest 36 months)NoNo | | | | tables annexures | Annexure 2 |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Regulation 1Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Regulation 1SasolNot indicatedNot clear from commentsNot clear from commentsHSG 173 to be removed, Regulation 1Yes Regulation 1Include definitions for "Intake" that was removedYes Regulation 1Include definitions for "Intake" that was removedYes Regulation 1Threshold to b indicatedNo reminition not clear minition not clear Threshold to b indicatedNo removedThreshold to b indicatedNo required (suggest 36 months)No required (suggest 36 months)No required (suggest 36 months) | | | | | |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Regulation 1 Management Air Quality Act"Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Regulation 1 Management Air Quality Act"Modderfontein LaboratoriesNot clear from commentsCorrect atmospheric pressure in formulaYes Regulation 1 Annexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, EH42 to be defined (Clarify OEL-8 hour Time - WeightedYes Regulation 1 (Clarify OEL-8 hour Time - Yes Annexure 2 "Skin" definition not clear (Skin" definition not clear (Threshold to b indicated a "entry level" in scopeImplementation period to moving over to GHS required (suggest 36 months)No - provided for 18 months | | | | | |
| Alignment of definition of "CARC"Yes Annexure 2Refer to the "National Environmental Management Air Quality Act"Yes Regulation 1Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Regulation 1Modderfontein LaboratoriesNot clear from commentsNot clear from commentsHSG 173 to be removed, EH42 to be definedYes Regulation 1Include definitions for "Intake" that was removedYesRegulation 1Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYes Annexure 2Threshold to b indicated a "entry level" in scopeNo - provided for inmoving over to GHS required (suggest 36 months)No - provided for | | | | | |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaRegulation 1SasolNot indicatedNot clear from commentsHSG 173 to be removed, EH42 to be definedYesRegulation 1Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYesMonexure 2"Skin" definition not clear "Skin" definition not clearImplementation period to moving over to GHS required (suggest 36 months)No - provided for 18 months | | | | Alignment of definition of | |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaRegulation 1SasolNot indicatedNot clear from commentsHSG 173 to be removed, EH42 to be definedYesRegulation 1Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYesMonexure 2"Skin" definition not clear "Skin" definition not clearImplementation period to moving over to GHS required (suggest 36 months)No - provided for 18 months | | | | Refer to the "National | Yes |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, EH42 to be definedYes Regulation 1Include definitions for "Intake" that was removedYes Regulation 1Clarify OEL-8 hour Time - weightedYes Annexure 2Threshold to b indicatedNo removedInclude definition not clear a "entry level" in scopeYes Provided for 18 months | | | | | Regulation 1 |
| Modderfontein LaboratoriesNot clear from commentsSupportCorrect atmospheric pressure in formulaYes Annexure 4SasolNot indicatedNot clear from commentsHSG 173 to be removed, EH42 to be definedYes Regulation 1Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYes Annexure 2"Skin" definition not clear a "entry level" in scopeYes Annexure 2Implementation period to moving over to GHS required (suggest 36 months)No - provided for 18 months | | | | Management Air Quality | C |
| Laboratoriescommentsnexure 4SasolNot indicatedNot clear fromHSG 173 to be removed, EH42 to be definedYesSasolInclude definitions for "Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYesAnnexure 2"Skin" definition not clear "Skin" definition not clearThreshold to b indicated a "entry level" in scopeNo<- provided for 18 months) | | | | - , | |
| Laboratoriescommentsnexure 4SasolNot indicatedNot clear fromHSG 173 to be removed, EH42 to be definedYesSasolInclude definitions for "Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYesAnnexure 2"Skin" definition not clear "Skin" definition not clearThreshold to b indicated a "entry level" in scopeNo<- provided for 18 months) | Madaufantain | Not close from | Support | Correct atmospharic | Vac |
| Sasol Not indicated Not clear from comments HSG 173 to be removed, EH42 to be defined Yes Regulation 1 Include definitions for "Intake" that was removed Include definitions for "Intake" that was removed Regulation 1 Clarify OEL-8 hour Time - weighted Yes Annexure 2 "Skin" definition not clear Annexure 2 Yes Annexure 2 "Skin" definition period to b indicated a "entry level" in scope No No No Implementation period to moving over to GHS required (suggest 36 months) No Is months | | | Support | - | |
| from commentsEH42 to be definedRegulation 1Include definitions for "Intake" that was removedYesClarify OEL-8 hour Time - weightedYesAnnexure 2"Skin" definition not clear Annexure 2Threshold to b indicated a "entry level" in scopeNoImplementation period to moving over to GHS required (suggest 36 months)No | | | Natalaar | | |
| commentsInclude definitions for "Intake" that was removedYes Regulation 1 removedClarify OEL-8 hour Time - weightedYes Annexure 2"Skin" definition not clear Threshold to b indicated a "entry level" in scopeYes Annexure 2Include definition period to moving over to GHS required (suggest 36 months)No | 58501 | Not indicated | | | |
| "Intake" that was removedRegulation 1Clarify OEL-8 hour Time - weightedYesMegulation not clearYes"Skin" definition not clearYesAnnexure 2Threshold to b indicated a "entry level" in scopeNoImplementation period to moving over to GHS required (suggest 36 months)No - | | | | | - |
| removed '''''''''''''''''''''''''''''''''''' | | | comments | | |
| Clarify OEL-8 hour Time - weighted Annexure 2 "Skin" definition not clear Yes Annexure 2 Threshold to b indicated No a "entry level" in scope Implementation period No – to moving over to GHS provided for required (suggest 36 18 months) | | | | | Regulation I |
| weighted Annexure 2 "Skin" definition not clear Yes Annexure 2 Threshold to b indicated No a "entry level" in scope Implementation period No – to moving over to GHS provided for required (suggest 36 18 months) Mo – | | | | | Voc |
| "Skin" definition not clearYes Annexure 2Threshold to b indicated a "entry level" in scopeNoImplementation period to moving over to GHS required (suggest 36 months)No – | | | | • | |
| Annexure 2Threshold to b indicated a "entry level" in scopeNoImplementation period to moving over to GHS required (suggest 36 months)No – | | | | | |
| Threshold to b indicated a "entry level" in scopeNoImplementation period to moving over to GHS required (suggest 36 months)No – | | | | Skin demnition not clear | |
| a "entry level" in scope Implementation period No – to moving over to GHS provided for required (suggest 36 18 months) No – | | | | Threshold to b indicated | |
| Implementation periodNo –to moving over to GHSprovided forrequired (suggest 3618 monthsmonths)18 | | | | | - |
| to moving over to GHS provided for required (suggest 36 18 months) 18 months | | | | | No – |
| required (suggest 36 18 months) | | | | | |
| months) | | | | - | • |
| | | | | | |
| | | | | Labelling should not be | No |
| applicable for containers | | | | _ | |

| | | | used for short periods at | |
|-----------------------------------|---------------------------------------|---------|--|---------------------|
| | | | work | |
| | | | Impractical to label pipelines | No |
| | | | 0.1% threshold for GHS | Yes |
| | | | classification / reporting | Regulation 14 D |
| | | | OEL for DMP to be | Yes |
| | | | included | Annexure 2 |
| | | | Replace "coal dust" OEL | Yes Annexure 2 |
| SASOHN – South African Society | Updated BEI's required in Industry | | Remove "inhalation" from BEI definition | Yes Annexure 2 |
| for Occupational | | | HCA to be used | Yes |
| Nursing | | | consistently | throughout |
| | | | No need for Y & Z in | Yes |
| | | | table 4 | Annexure 2 |
| | | | OH &SA should be in full | Yes |
| | | | | Throughout |
| | | | Reference to spirometry | Yes |
| | | | ONLY – incorrect | Regulation 7 |
| WITS - | Not indicated in | Support | Include definition for | No, In the |
| University | comments | | reasonably practicable. | Act |
| | | | Introduce term: inhalable | Yes |
| | | | fractions | Annexure 4 |
| | | | Ozone OEL not at level of | No |
| | | | exertion | |
| | | | Correct reference to CL | Yes |
| | | | and RL | Annexure 4 |
| | | | Chang reference to CI to Minister – Setting OEL | No |
| | | | Criterion 3 not valued | Yes |
| | | | any more – consider | Annexure 4 |
| | | | replacing | |
| | | | Total inhalable fraction | Yes |
| | | | replaced | Annexure 2 |
| | | | Mass fraction only | Yes |
| | | | referred to in relation to | Annexure 4 |
| | | | aerosol fraction | |
| Private | Generally: Alignment | Support | Use of "agents" to refer | No |
| Individuals | with international | | to both substances and | |
| | classification, labelling | | mixtures not suitable | |
| | and SDS standards and | | Include evaluation of | No |
| | Updated OEL's and BEIs | | "potential" workplace | |
| | required in Industry. | | health hazards | |
| | | | Clarify "maximum | Yes |
| | | | average airborne | Annexure 4 |
| | | | concentration" | |
| | | | "sensitizer" definition | Yes |
| | | | aligned to GHS | Regulation 1 |
| | | | Reference to "airborne | Yes |
| | | | exposure" not | Regulation1 |

| appropriate in "skin" definition | |
|--|--------------------|
| Require direction of flow on pipeline | Yes Regulation |
| | 14 B |
| Only agents contributing | Yes |
| to classification to be on label | Regulation 14 B |
| Penalties not in line with | Yes |
| severity of offences | Regulation 16 |
| Provide OEL for petrol, not only components | No |
| Iscyanetes was previously a CL OEL | No |
| Notations to be included | Yes |
| | Annexure 2 |
| Molecular weight to be | Yes |
| provided | Annexure 4 |
| Table with OEL to provide target organ | No |
| Correct referencing in | Yes |
| guide | Annexure 4 |
| Use sub-letter in | Yes |
| formulas | Annexure 2 |

- b) Summarise and evaluate the main disagreements about the proposal arising out of discussions with stakeholders and experts inside and outside of government. Do not give details on each input, but rather group them into key points, indicating the main areas of contestation and the strength of support or opposition for each position:
- Concerns were however raised about the implementation timeframes, or when the sector would be expected to comply with the new requirements. It was pointed out that South Africa already agreed in 2008 to implement the GHS classification and that compliance to this was voluntary. Several industry role-players already implemented the GHSystem in order to comply with export partner countries' requirements. A transition period from old classification and labelling systems to the GHSystem and update OEL's of 18 months were agreed and included into the Draft.

- Provision was needed in the draft for phasing-in of legal requirements to allow manufacturers time to implement new requirements.
- Cut-off limits was needed for level when a chemical need to be classified as hazardous.
- Numbering corrections was required and referencing between regulations and paragraphs.

| Stakeholders | Inside or Outside Government | Cost | Benefit |
|---|---------------------------------|--|---|
| Manufacturers / Importers | Outside | Cost of classification of chemicals, development of SDS and labels according to GHS for one chemical product – ± R6500. Cost of classification of chemical mixtures, development of SDS and labels according to GHS will depend on the number and complexity of the substances and types. | Reduction in health risk due to exposure to chemicals |
| Employers | | Cost training employees on GHS ± R8000 per person. Implementation of control measures to comply with new exposure limits (OEL). Cost depending on the type and extend of controls to be implemented – such as engineering, local ventilation systems, shift work, training, new work procedures, new raw materials and personal protective equipment. Cost training employees on GHS ± R8000 per person. | Reduction in health risk due to exposure to chemicals |
| Department of Employment and Labour | Inside | Cost of training Inspectors "in-house" ± R 2000 per OHS Inspector | Controlling and monitoring occupational health risks through enforcement of legal requirements |

2.4. Assessment of costs and benefits to stakeholders inside and outside of government

| Cost of informing stakeholders – Virtual workshops | Controlling occupational health risks leading to less occupational disease and |
|--|--|
| | fatalities |

2.5. Describe the groups that will benefit from the proposal, and the groups that will face a cost. These groups could be described by their role in the economy or in society. Note: NO law or regulation will benefit everyone equally so do not claim that it will. Rather indicate which groups will be expected to bear some cost as well as which will benefit. Please be as precise as possible in identifying who will win and who will lose from your proposal. Think of the vulnerable groups (disabled, youth women, SMME), but not limited to other groups.

| List of beneficiaries (groups that will benefit) | How will they benefit? |
|--|---|
| Employees | Improved health and safety |
| Employers | Reduced compensation cost |
| | Staff retention and longer work life for employees. |
| | Employers saving on work-days lost to medical treatment due to their good health owing to prevention through protection against exposure to chemicals |
| | Low training costs as staff retaining results in keeping skilled workers |
| | Stable and increased production levels when Employees will be safe from workplace chemical related diseases. Their moral will be increased |
| | Protection of employees from unsafe workplace. |
| All stakeholders; Employers, employees, Labour Unions, AIAs & occupational health practitioners, Chemical manufacturers and importers, Department of Employment and Labour | Clearer, more directive regulations for ease of application |
| AlAs and Occupational Health Practitioners | Clearer, more directive regulations and updated exposure limits will instil confidence in application of these by AIAs and OMPs |
| Families of the employees | Secured households income and well-being of family members |
| Compensation Fund | Less COIDA claims |
| Unemployment Insurance Fund | Less UIF claims |

| Department of Health | Savings on medical services offered to ill employees | |
|----------------------|---|--|
| Communities | Improved health due the limiting exposure to hazardous chemicals in their environments | |

| List of cost bearers (groups that will bear the cost) | How will they incur / bear the cost |
|--|---|
| Employers | Cost associated with improvement of controls to comply to reduced OELs |
| | Occupational Hygiene sampling and analysis costs (some OELs might require new sampling and analytical equipment and techniques |
| | Reduced OELs might trigger additional medical surveillance and biological monitoring requirements |
| | Additional AIA related services and costs |
| | • Employers will have to implement safety measures required. |
| | Training employees about safety as per regulation. |
| | Ensuring employees have Personnel Protective Equipment (PPE) |
| | Pay fines and penalties for non- compliance |
| Government : Compensation Fund, UIF, Social Grants, Hospitalization | Compensation in the case of disablement caused by occupational injuries and diseases through COIDA and Unemployment Insurance Act |
| | Compensation Fund will save on costs for compensating claims, for medical treatment and rehabilitation of affected workers |
| | UIF will pay for Illness benefits when workers are laid-off due to ill health |
| | Workers will be employed for longer and not become prematurely dependant on social grant benefits |
| | Burden to hospitals and clinics will be reduced when chemical related |

2.6 Describe the costs and benefits of implementing the proposal to each of the groups identified above, using the following chart. Please do not leave out any of the groups mentioned, but you may add more groups if desirable. Quantify the costs and benefits as far as possible and appropriate. Add more lines to the chart if required.

Note: "Implementation costs" refer to the burden of setting up new systems or other actions to comply with new legal requirements, for instance new registration or reporting requirements or by initiating changed behaviour. "Compliance costs" refers to on-going costs that may arise thereafter, for instance providing annual reports or other administrative actions. The costs and benefits from achieving the desired outcomes relate to whether the particular group is expected to gain or lose from the solution of the problem.

For instance, when the UIF was extended to domestic workers:

- The implementation costs were that employers and the UIF had to set up new systems to register domestic workers.
- The compliance costs were that employers had to pay regularly through the defined systems, and the UIF had to register the payments.
- To understand the inherent costs requires understanding the problem being resolved. In the case of UIF for domestic workers, the main problem is that retrenchment by employers imposes costs on domestic workers and their families and on the state. The costs and benefits from the desired outcome are therefore: (a) domestic workers benefit from payments if they are retrenched, but pay part of the cost through levies; (b) employers pay for levies but benefit from greater social cohesion and reduced resistance to retrenchment since workers have a cushion; and (c) the state benefits because it does not have to pay itself for a safety net for retrenched workers and their families.

| Group | Implementation costs | Compliance costs | Costs/benefits from achieving desired outcome | Comments |
|---|---|--|---|----------|
| Workers exposed to chemicals | None- cost to be carried by employers | none | Improved health | |
| Employers of workers working with chemicals | Cost of training workers, Cost of exposure monitoring Cost of medical tests and Cost of equipment and controls such as ventilation and personal protective equipment. | Cost of controlling exposure to meet limits. Fines for non- compliance. | Improved workforce health, Qualifying to get jobs when they exist due to meeting required compliance | |
| Manufactures / Importers of chemicals | Cost of classification of chemicals, Cost of developing SDS, cost of developing labelling | | Compliance to international standards to ease export | |
| Government | Awareness training and promotion of legislation Legislation enforcement | | Improved workforce health, lessen COIDA claims and burden of national health care system | |

2.7 Cost to government: Describe changes that the proposal will require and identify where the affected agencies will need additional resources

a) Budgets, has it been included in the relevant Medium Term Expenditure Framework (MTEF): and

Training cost for Department of Employment and Labour Inspectors are already included into the Departmental budget – no additional costs are expected. Due to the COVID-19 pandemic, training will be conducted on virtual platforms (software already in place) thus eliminating travel cost to provide training to Inspectorate nationwide. Personal protective equipment that Inspectorate may need is already provided for in Provincial budgets –as inspections are already required, thus not new expenditure.

b) Staffing and organisation in the government agencies that have to implement it (including the courts and police, where relevant). Has it been included in the relevant Human Resource Plan (HRP):

No additional staffing required as the existing inspectorate would be implementing the enforcement of the revised Regulations as they did with the 1995 Regulations.

Note: You MUST provide some estimate of the immediate fiscal and personnel implications of the proposal, although you can note where it might be offset by reduced costs in other areas or absorbed by existing budgets. It is assumed that existing staff are fully employed and cannot simply absorb extra work without relinquishing other tasks.

2.8 Describe how the proposal minimises implementation and compliance costs for the affected groups both inside and outside of government.

| Group | Nature of cost (from question 2.6) | What has been done to minimise the cost? |
|---|---|--|
| Small, Medium and Micro Enterprise, Informal sector | Exposure assessment cost | Air monitoring intervals will be 24 months for BOTH RL and MEL (currently - 12 months for OEL-CL). |
| Employers | Training of employees Safeguarding employees | Costs are not new – these are already requirements in 1995 legislation. (training may be performed "in-house" reducing costs) |
| | Additional controls implemented | Implementation of the hierarchy of control: • Elimination |

| | Substitution |
|------------------------------|---|
| | Engineering controls (physical barriers, ventilation systems) |
| | Administrative controls (shift work, training) |
| | Personal protective equipment |
| Classification and labelling | The cost of classification of a single agent, |
| according to GHS | development of SDS and labelling can be |
| | around R6000 per item. For chemical |
| | mixtures it depends on number and |
| | complexity of components. |

For government agencies and institutions:

| Agency/institution | Nature of cost (from question 2.6) | What has been done to minimise the cost? |
|---|--------------------------------------|--|
| Department of Health, Department of Agriculture, Forestry and Fisheries | Exposure assessment cost | Air monitoring intervals will be 24 months for BOTH RL and MEL (currently - 12 months for OEL-CL). |
| Department of Health and, Department of Employment and Labour | Compensation costs and medical costs | As the proposed exposure limits are stricter than current ones, it is anticipated that less people will get occupational related diseases, there will be lower medical costs and less claims for compensation. |
| Department of Environmental Affairs, Department of Health | | The disposal of HCA being now regulated by the national Waste Act is anticipated to minimize costs related to environmental pollution, and reduce medical costs related to persons adversely affected by chemical waste and environmental pollution. |

2.9 Managing Risk and Potential Dispute

a) Describe the main risks to the achievement of the desired outcomes of the proposal and/or to national aims that could arise from implementation of the proposal. Add more lines if required:

A risk exist that industry may need additional time to implement requirements and meeting standards.

Note: It is inevitable that change will always come with risks. Risks may arise from (a) unanticipated costs; (b) opposition from stakeholders; and/or (c) ineffective implementation co-ordination between state agencies. Please consider each area of risk to identify potential challenges.

b) Describe measures taken to manage the identified risks. Add more rows if necessary:

Mitigation measures means interventions designed to reduce the likelihood that the risk actually takes place.

| Identified risk | Mitigation measures | |
|---|--|--|
| Time required to comply | The proposal addressed the timeframe for new requirements such as the classification, SDS and labelling according to GHS by stipulating an implementation date 18 months from the date of promulgation of the Regulations. | |
| | The proposal addressed the timeframe for compliance to new exposure limits (OEL & BEI) by stipulating implementation date 18 months from the date of promulgation. | |
| Limited knowledge to comply with GHS requirements | Industry associations engaged on development of standardised training criteria on GHS. | |
| | Explanatory notes to the Regulations have been and will be published on the Department of Employment and Labour's website and distributed to all stakeholders. Additional document addressing "Competent Authority decisions" to be made available as well. | |
| | Workshops / virtual workshops will be hosted by the Departments on the new Regulations once promulgated for all stakeholders. | |
| | The Department will be available to make presentations on invitation relating to the Regulations. | |

c) What kinds of dispute might arise in the course of implementing the proposal, whether (a) between government departments and government agencies/parastatals, (b) between government agencies/parastatals and non-state actors, or (c) between non-state actors? Please provide as complete a list as possible. What dispute-resolution mechanisms are expected to resolve the disputes? Please include all of the possible areas of dispute identified above. Add more lines if required.

Note: Disputes arising from regulations and legislation represent a risk to both government and non-state actors in terms of delays, capacity requirements and expenses. It is therefore important to anticipate the nature of disputes and, where possible, identify fast and low-cost mechanisms to address them.

Disputes relating to the proposed Regulations are not expected as the regulations were drafted in consultation with Organised Labour and Business in Technical Committee. The draft was approved by the Minister's Advisory Council consisting of Government Departments, UIF as well as Organised Labour and Business. The Draft was published for public comments for 90 days an all inputs considered. The Draft Regulations was presented to Stakeholders at workshops and several different forums explaining the reasoning behind the requirements.

However, the Occupational Health and Safety Act provides for a well-established dispute-settlement processes within the Department of Employment and Labour, which allow for a decision from the Labour Inspector of Department of Employment and Labour to be appealed. Section 35 of this Act also allows for application for exemptions. Section 40 of the Act further allows for both these processes to be expedited. This option would be available to address any disputes on the enforcement of the draft regulations.

Section 35 of the Occupational Health and Safety Act 85 of 1993 as amended:

35. Appeal against decision of inspector. - (1) Any person aggrieved by any decision taken by an inspector under a provision of this Act may appeal against such decision to the chief inspector, and the chief inspector shall, after he has considered the grounds of the appeal and the inspector's reasons for the decision, confirm, set aside or vary the decision or substitute for such decision any other decision which the inspector in the chief inspector's opinion ought to have taken.

Definition: "inspector" means a person designated under section 28;

Section 28 of the Occupational Health and Safety Act 85 of 1993 as amended: 28. Designation of inspectors by Minister. - (1) The Minister may designate any person as an inspector to perform, subject to the control and directions of the chief inspector, any or all of the functions assigned to an inspector by this

Act.

| Nature of possible dispute (from sub-section above) | Stakeholders involved | Dispute-resolution mechanism |
|--|-----------------------------|--|
| Compliance to exposure limits | Employers | Work with industry stakeholders to develop requirements for training and unit standards on training, qualifications, continued and development. |
| Updating and provision of SDS for imported chemicals | Importers, Employers | Working alongside SARS officials to ensure importers of chemicals are updated regarding labelling and SDS requirements. Information sharing with Customs officials. |
| Provision of product detail on SDS | Importers, Manufacturers | Protection of business information along national legislation and international standards. |

Would it be possible to establish or use more efficient and lower-cost disputeresolution mechanisms than those now foreseen? These mechanisms could include, for instance, internal appeals (e.g. to the Minister or a dedicated tribunal) or mediation of some kind.

| Nature of possible dispute | Proposed improvement in dispute-resolution mechanism |
|----------------------------|--|
| Appeal of regulatory | Current system of appeal as stipulated in the |
| requirements | Occupational Health and Safety Act 85 of 1993, through |
| | Section 35, does not result in any cost to the public. The |
| | Department of Employment and Labour would incur the |
| | cost of assessing and investigating appeals, through time |
| | spend by official compensations. |

2.10 Monitoring and Evaluation

a) When is implementation expected to commence after the approval of the proposal?

Compliance to the Draft Regulations requirements are expected to commence at the time of promulgation by the Minister of Employment and Labour through publication in the Government Gazette as this draft only replaces an exciting Regulations of 1995. However, Regulation 3 and Regulation 2 14, 14A, 14B, 14C and 14D will come into effect 18 months after the promulgation of the Regulations.

b) Describe the mechanisms that you will apply to monitor the implementation of the proposal after being approved:

Through the proposed Regulations the duty for implementation is placed on every employer and self-employed person doing business with hazardous chemical agents.

The Department of Employment and Labour's Inspection and Enforcement Branch (IES) has a national footprint. Through the IES Inspectorate the compliance of employers with the proposed Regulations will be inspected, monitored and enforced. Departmental Inspectors are appointed in accordance with Section 28 of the Occupational Health and Safety Act 85 of 1993 as amended: 28. Designation of inspectors by the Minister. (1) The Minister may designate any person as an inspector to perform, subject to the control and directions of the chief inspector, any or all of the functions assigned to an inspector by this Act.

The Provincial offices of the Department of Employment and Labour report on a monthly basis on the numbers of inspections conducted, the number of notices issued to employers and the number of prosecutions undertaken. The Provincial Offices will thus report on the compliance (implementation by employers) with the proposed Regulation and steps taken to ensure compliance.

c) Who will be responsible for monitoring the implementation of this proposal?

The IES Branch of the Department of Employment and Labour will be responsible for monitoring the implementation of the proposal by employers.

Practical monitoring can happen when routine inspections are conducted or complaints and incidents investigated. All these monitoring functions are conducted by Inspectors within the IES Branch of the Department of Employment and Labour and reports generated.

d) What are the results and key indicators to be used to for monitoring? Complete the table below:

| Results | Indicators | Baseline | Target | Responsibility |
|----------------------------|------------|----------|--------|----------------|
| Impact: long term result | | | | |
| (change emanating from the | | | | |
| implementation of the | | | | |
| proposal in the whole of | | | | |
| society of parts of it) | | | | |

| Outcome: medium term result (what beneficiaries achieve as a result of the implementation of the proposal) Impact: long term result | Reduction in | Current number | 30% reduction | Department of |
|--|---|--|--|---|
| (change emanating from the implementation of the proposal in the whole of society of parts of it) Reduction of occupational acquired chemical related diseases. | industrial fatalities acquired from occupational exposure to chemicals | of fatalities during the financial year2010/2011* the amount of R 2,708,203,689 was paid to the Chemical sector for COIDA claims | of injuries and fatalities by 2040 | Employment and Labour & Industry |
| Outcome: medium term result (what beneficiaries achieve as a result of the implementation of the proposal) Reduced adverse health effects on employees in the chemical industry | Rate of occupational diseases due to chemical exposure | During the financial year 2009/2010 R 2 286 410 189 was payed to the chemical sector and during the financial year2010/2011* R 2,708,203,689 was paid to the Chemical sector for COIDA claims | 15% less occupational diseases reported to Compensation Fund, resulting in less pay-outs | Department of Employment and Labour and Industry |
| Outputs: direct results of the activities Improved knowledge of the regulatory requirements by employers and employees. | Number of training sessions | NA | 2 virtual Workshops | Department of Employment and Labour's IES Branch and Industry Associations |
| Outputs: direct results of the activities Improved compliance HCA regulations by employers and employees | Number of inspections conducted to monitor compliance to HAC regulations by employers | NA | 10% increase of Inspection in the Chemical Industry by the IES Branch Department of Employment and Labour | Department of Employment and Labour, IES Branch |

* 2013, 2014, 2015, 2016, 2017, 2018 & 2019 data not available from Compensation Fund

e) When will this proposal be evaluated on its outcomes and what key evaluation questions will be asked? Below please find evaluation questions for your consideration:

The outcome of implementation will be monitored on a monthly, quarterly and yearly basis within the Department of Employment and Labour. The monitoring will contribute to the Department's long and medium term objectives.

The proposed legislation will be monitored and the Advisory Council on Occupational Health and Safety (ACOHS) to the Minister of Department of Employment and Labour may instruct that the legislation be reviewed if and when it sees fit. In addition, when there are new developments or policy changes or improved technology available the legislation may be reviewed and/or updated.

- *i.* What was the quality of proposal design/content? (Assess relevance, equity, equality, human rights)
- *ii.* How well was the proposal implemented and adapted as needed? (Utilise the Monitoring and Evaluation plan to assess effectives and efficiency)
- *iii.* Did the proposal achieve its intended results (activities, outputs and outcome) as per the Monitoring and Evaluation plan?
- *iv.* What unintended results (positive and/or negative) did the implementation of the proposal produce?
- v. What were the barriers and enablers that made the difference between successful and failed proposal implementation and results
- vi. How valuable were the results of your proposal to the intended beneficiaries?
- f) Please provide a comprehensive implementation plan

Department of Employment and Labour ("the Department") endeavours to achieve the United Nation's Sustainable Development Goals (SDG) linked to management of chemicals; SDG #3 (good health and well-being), #8 (decent work and economic growth), #11 (sustainable cities and communities), #12 (responsible consumption and production) and #15 (life on land). These 5 SDG's all have an impact on chemicals management internationally. By way of this the Department is committed to collaboration with stakeholders and affected parties, keeping up to date with international trends, ensure protection for all works including vulnerable workers and youth and female workers.

The implementation plan for the proposal will be finalised in the next financial year and aligned with the IES Branch and Departmental workplans. The implementation plan will consider:

- **Timeframes:** The regulations will be implemented by employers once the Regulations have been promulgated, except for regulations 13(d), 14, 14A, 14B, 14C and 14D these will be implemented 18 months after promulgations by the Minister of Department of Employment and Labour.
- Stakeholder engagement: Department of Employment and Labour will publish the proposed Regulations and provide workshops to interested and affected stakeholders within industry on the Regulations to assist in implementation, within 6 months after promulgation. Once published industry associations will be made aware of the new requirements stipulated within the Regulations. Industry associations will be requested to inform their members accordingly. Explanatory notes to the Regulations to provide additional assistance will be placed on the Departmental website once published. All these guideline documents will be available at the time of promulgations by the Minister of Department of Employment and Labour.
- Instruction and Training: Before promulgation and immediately thereafter, training will also be provided to the Departmental Inspectors to update them on enforcement of the legislation. Instruction will be provided to standardise inspections and enforcement of the proposed regulations across South Africa.
- Inspection and Enforcement: Department of Employment and Labour coordinate an inspection plan 18 month after promulgation when Regulations 13(d), 14, 14A, 14B, 14C and 14D will come into effect the evaluate the level of readiness and compliance to the new requirements and develop intervention plane in collaboration with Industry.
- g) Please identify areas where additional research would improve understanding of then costs, benefit and/or of the legislation. Research conducted on the:
 - Baseline for the number of chemical related injuries, diseases and deaths due to occupational exposure in South African Industry compared to SADC Region.
 - Cost of GHS implementation to South Africa in its entirety.

| Name of Official/s | Tendani Ramulongo & Elize Lourens |
|--------------------|---|
| Designation | Director & Specialist |
| Unit | Research Policy and Planning & Inspection and Enforcement / |
| | Occupational Hygiene |
| Contact Details | 012 309 4231 & 012 309 4387 |
| Email address | elize.lourens@labour.gov.za & |
| | tendani.ramulongo@labour.gov.za |

References

ATSDR, 2014. *Health Effects of Chemical Exposure,* Georgia: The Agency for Toxic Substances and disease registry.

Borak, 2015. The past and future of occupational exposure limits. *Journal of Occupational and Enivironmental Hygiene*.

CCOHS, n.d. Globally Harmonized System (GHS).

https://www.ccohs.ca/oshanswers/chemicals/ghs.html#:~:text=GHS%20stands%20for%20th e%20Globally,labels%20and%20safety%20data%20sheets).&text=An%20international%20te am%20of%20hazard%20communication%20experts%20developed%20GHS..

Deveau, 2016. *The Global landscape of occupatinal exposure limits- Implemetation of harmonization principles to guide limit selection.* s.l.:Journal for Occupational Environmetal Hygiene.

Health and Safety Executive, n.d. Background: Globally Harmonised System (GHS). *https://www.hse.gov.uk/chemical-classification/legal/background-directives-ghs.htm.*

HSE, n.d.

ILO, 2010. International Labour Organisation list of occupational diseases, Geneva: ILO.

Smith, 2014. Workers are not being protected from chemical azradrs. EHS Today.

UNEP, 2013. *Costs of inaction on the sound management of chemicals;*. Geneva: Unite Nations Environmetal Program.

WHO, n.d. *Preventing diseace through health environments*. s.l.:Workld Health Organisation.

- 1. Briefly summarise the proposal in terms of (a) the problem being addressed and its main causes and (b) the measures proposed to resolve the problem.
 - (a) Everyone comes into contact with chemicals every day, this is called chemical exposure. Hazardous chemicals can get into the body through breathing or swallowing/ingesting chemicals or if they are absorbed through the skin. In the work environment employees are exposed the chemicals specially develop the have specific properties such as corrosivity and oxidisers. People respond to chemical exposures in many different ways. The root cause of the problem is uncontrolled exposure, release and associated exposure resulting from the inappropriate manufacturing, storing, transport, use and disposal of Hazardous Chemical Agents.
 - (b) The proposal aims to ensure a safe work environment concerning chemicals that is not dangerous to the health of safety of employees. This is being achieved through incorporation of the international standard on classification and labelling of chemicals as well as updating existing occupational exposure limits to chemicals in the work place.

| Groups | How they would be affected |
|---------------------------------|---|
| Beneficiaries | |
| 1. Manufactures | Reduction in health risk due to exposure to chemicals |
| 2. Chemical Importers. | Reduction in health risk due to exposure to chemicals |
| 3. Employers | Controlling occupational health risks leading to less occupational disease and fatalities |
| Cost bearers | |
| 1. Employers | Cost associated with improvement of controls to comply to reduced OELs Training employees about safety as per regulation. |
| 2. Government (Compensation) | Compensation in the case of disablement caused by occupational injuries and diseases |

2. Identify the social groups that would benefit and those that would bear a cost, and describe how they would be affected. Add rows if required.

3. What are the main risks from the proposal in terms of (a) undesired costs, (b) opposition by specified social groups, and (b) inadequate coordination between state agencies?

- Undesired cost The draft was developed with the objective of eliminating undesired cost of ill health of employees.
- The draft/proposal was developed to address the concerns of workers an communities faced with health risks associated with chemical exposure
- Coordination is required Environmental Fisheries and Forestry and Department of Health on related legislation.
- Cost associated with improvement of controls to comply to reduced Occupational Exposure Limits (OEL)
- Personal protective equipment costs to employer
- Occupational Hygiene sapling and analysis costs (some OELs might require new sampling and analytical equipment and techniques
- Reduced OELs might trigger additional medical surveillance and biological monitoring requirements
- Employers will have to implement safety measures required.
- Training employees about safety as per regulation.
- Pay fines and penalties for non-compliance
- 4. Summarise the cost to government in terms of (a) budgetary outlays and (b) institutional capacity.
 - (a) Awareness training and promotion of legislation and legislation enforcement
 - (b) Training cost for Department of Employment and Labour Inspectors are already included into the Departmental budget – no additional costs are expected. Personal protective equipment that Inspectorate may need is already provided for in Provincial budgets –as inspections are already required, thus not new expenditure.
- 5. Given the assessment of the costs, benefits and risks in the proposal, why should it be adopted?
 - The Draft regulations are not entirely new regulations but are to replace the 1995 regulations
 - Clearer, more directive regulations and updated exposure limits will instil confidence in application of these.
 - Compensation in the case of disablement caused by occupational injuries and diseases
 - Compensation Fund will save on costs for compensating claims, for medical treatment and rehabilitation of affected workers
 - Workers will be employed for longer and not become prematurely dependant on social grant benefits
 - Burden to hospitals and clinics will be reduced when chemical related diseases are reduced or eliminated through this regulation.
- 6. Please provide two other options for resolving the problems identified if this proposal were not adopted.

| Option 1. | Develop a national policy for controlling chemical risks in the occupational setting. |
|-----------|--|
| Option 2. | Continued enforcement of the current 1995 Regulations for Hazardous Chemical Substances |

- 7. What measures are proposed to reduce the costs, maximise the benefits, and mitigate the risks associated with the legislation?
- a) New cost for the Department of Employment and Labour are not foreseen as the Labour Inspectorate is already in place to preform inspections and enforcement.
- b) Training requirements for Inspectors and external stakeholders are not new as this is always planned for in the budget for the Inspection and Enforcement (IES) Branch.
- c) Industry will have more guidance on how that manage hazardous chemicals properly and protect the health of employees.
- 8. Is the proposal (mark one; answer all questions)

| | Yes | No |
|--|-----|----|
| a. Constitutional? | Yes | |
| b. Necessary to achieve the priorities of the state? | Yes | |
| c. As cost-effective as possible? | Yes | |
| d. Agreed and supported by the affected departments? | Yes | |

9. Which of the National priorities would be most supported by this proposal?

Priorities 1, 2, 4, 5 and 7.

PRIORITY 1: Economic transformation and job creation

PRIORITY 2: Education, skills and health

PRIORITY 3: Consolidating the social wage through reliable and quality basic services

PRIORITY 4: Spatial integration, human settlements and local government

PRIORITY 5: Social cohesion and safe communities

PRIORITY 6: Building a capable, ethical and developmental state

PRIORITY 7: A better Africa and world.

Acronyms:

- **BEI** Biological Exposure Index
- GHS- Globally Harmonised System for classification and labelling of chemicals
- HCA- Hazardous Chemical Agent
- **IES-** Inspection and Enforcement Services (Branch of the Department of Employment and Labour)
- ILO International Labour Organisation
- **OEL** Occupational Exposure Limit
- SDS- Safety Data Sheet