

Chemeco Eucalyptus Bleach 4%

Chemwatch Hazard Alert Code: 2

Issue Date: **27/06/2022** Print Date: **05/05/2023** S.GHS.AUS.EN

Issue Date: **27/06/2022**

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Version No: 3.1.1.1

Product name	Eucalyptus Bleach 4%
Synonyms	Not Available
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Designed for bleaching of fabrics and sanitising food contact surfaces.

Details of the supplier of the safety data sheet

Registered company name	Chemeco (Aust)
Address	17 Yale Drive Epping VIC 3076
Telephone	(03) 9408 8699
Fax	(03) 9408 8399
Website	www.chemeco.com.au
Email	info@chemeco.com.au

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	S5
Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Version No: 3.1.1.1

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
7681-52-9	1-4	sodium hypochlorite	
		(available chlorine = 4%)	
7732-18-5	>60	water	

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Advice for firefighters	

Fire Fighting

Fire/Explosion Hazard

 Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
May emit corrosive fumes.
Non combustible.
Not considered to be a significant fire risk.
Expansion or decomposition on heating may lead to violent rupture of
 containers. Decomposes on heating and may produce toxic/ irritating fumes.

Alert Fire Brigade and tell them location and nature of hazard.

Decomposes on heating and produces toxic fumes of:, hydrogen chloride

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills

Slippery when spilt.

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- · Contain and absorb spill with sand, earth, inert material or vermiculite.

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Major Spills

Slippery when spilt.

Moderate hazard.

- ▶ Clear area of personnel and move upwind.
- , Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- > DO NOT allow clothing wet with material to stay in contact with skin

Other information

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
sodium hypochlorite	Sodium hypochlorite pentahydrate	4.6 mg/m3		290 mg/m3	
sodium hypochlorite	Sodium hypochlorite	2 mg/m	3 20 mg/m3	630 mg/m3	
Ingredient Original IDLH		R	Revised IDLH		
sodium hypochlorite	Not Available		Not Available		

Exposure controls

water

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Not Available

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection



Not Available





Eye and face protection

- Safety glasses with side
- shields. Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber NOTE:

Hands/feet protection

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice

Suitability and durability of glove type is dependent on usage

Body protection

See Other protection below

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Other protection

- Overalls.
- P.V.C. apron.
- Barrier cream.

Thermal hazards

Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

NV Chemicals Bleach 4%

Material	СРІ
NEOPRENE	Α
NATURAL RUBBER	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove,

a final selection must be based on detailed observation.

Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	B-AUS P3	-	B-PAPR-AUS / Class 1 P3
up to 50 x ES	-	B-AUS / Class 1 P3	-
up to 100 x ES	-	B-2 P3	B-PAPR-2 P3 ^

^ - Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	A pale straw liquid with a faint odour of chlorine; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.120-1.130
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	11.8-12.2	Decomposition temperature Not Applicable	
Melting point / freezing point (°C)	0	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	110	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2 @ 20C	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	11.3-11.7
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Reactivity	
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives

^{*} Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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	good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and vomiting		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	There is some evidence to suggest that this material can cause eye irritation a	and damage in some persons.	
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Contact may cause severe itchiness, skin lesions and mild eczema. A 5.25% solution of sodium hypochlorite applied to intact human skin for 4 hours and observed at 4, 24 and 48 hours resulted in exudation an slight sloughing of the skin on 4 of 7 subjects. Two patients were reported with chronic allergic dermatitis of the hand related to sensitisation to sodium hypochlorite as the active component of laundry bleach		
	TOXICITY	RITATION	
NV Chemicals Bleach 4%		nt Available	
	TOXICITY	RITATION	
sodium hypochlorite		e (rabbit): 10 mg - moderate	
.,	Oral (rat) LD50: >237 mg/kg ^[1]	e (rabbit): 100 mg - moderate	
	Skin (rabbit): 500 mg/24h-moderate		
	TOXICITY	RITATION	
water	Oral (rat) LD50: >90000 mg/kg ^[2] Not Available		
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity specified data extracted from RTECS - Register of Toxic Effect of chemical States.		
Legend: NV Chemicals Bleach 4%			
-	specified data extracted from RTECS - Register of Toxic Effect of chemical S	to the material ceases. This may be due to a non-allergenic occur following exposure to high levels of highly irritating seding respiratory disease, in a non-atopic individual, with abrupt ented exposure to the irritant. A reversible airflow pattern, on on methacholine challenge testing and the lack of minimal e criteria for diagnosis of RADS. Is carcinogenicity to esting. Peated or prolonged exposure to irritants may produce	
NV Chemicals Bleach 4%	Not available. Asthma-like symptoms may continue for months or even years after exposure condition known as reactive airways dysfunction syndrome (RADS) which car compound. Key criteria for the diagnosis of RADS include the absence of preconset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in the Hypochlorite salts are classified by IARC as Group 3: NOT classifiable as to inhumans. Evidence of carcinogenicity may be inadequate or limited in animal to The material may produce moderate eye irritation leading to inflammation. Reconjunctivitis. Hypochlorite salts are extremely corrosive and can cause sever been observed in mice, when applied to their skin.	to the material ceases. This may be due to a non-allergenic occur following exposure to high levels of highly irritating seding respiratory disease, in a non-atopic individual, with abrupt ented exposure to the irritant. A reversible airflow pattern, on on methacholine challenge testing and the lack of minimal e criteria for diagnosis of RADS. Is carcinogenicity to esting. Peated or prolonged exposure to irritants may produce	
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NV Chemicals Bleach 4% SODIUM HYPOCHLORITE WATER	Not available. Asthma-like symptoms may continue for months or even years after exposure condition known as reactive airways dysfunction syndrome (RADS) which car compound. Key criteria for the diagnosis of RADS include the absence of prevenset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in the Hypochlorite salts are classified by IARC as Group 3: NOT classifiable as to in humans. Evidence of carcinogenicity may be inadequate or limited in animal to The material may produce moderate eye irritation leading to inflammation. Reconjunctivitis. Hypochlorite salts are extremely corrosive and can cause several been observed in mice, when applied to their skin. as sodium hypochlorite pentahydrate No significant acute toxicological data identified in literature search.	to the material ceases. This may be due to a non-allergenic occur following exposure to high levels of highly irritating seding respiratory disease, in a non-atopic individual, with abrupt ented exposure to the irritant. A reversible airflow pattern, on on methacholine challenge testing and the lack of minimal ecriteria for diagnosis of RADS. s carcinogenicity to esting. peated or prolonged exposure to irritants may produce e damage to the eyes and skin. A number of skin cancers have	
NV Chemicals Bleach 4% SODIUM HYPOCHLORITE WATER Acute Toxicity	Not available. Asthma-like symptoms may continue for months or even years after exposure condition known as reactive airways dysfunction syndrome (RADS) which car compound. Key criteria for the diagnosis of RADS include the absence of prevenset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in the Hypochlorite salts are classified by IARC as Group 3: NOT classifiable as to in humans. Evidence of carcinogenicity may be inadequate or limited in animal to The material may produce moderate eye irritation leading to inflammation. Reconjunctivitis. Hypochlorite salts are extremely corrosive and can cause several been observed in mice, when applied to their skin. as sodium hypochlorite pentahydrate No significant acute toxicological data identified in literature search.	to the material ceases. This may be due to a non-allergenic occur following exposure to high levels of highly irritating seding respiratory disease, in a non-atopic individual, with abrupt ented exposure to the irritant. A reversible airflow pattern, on on methacholine challenge testing and the lack of minimal e criteria for diagnosis of RADS. Is carcinogenicity to esting. peated or prolonged exposure to irritants may produce e damage to the eyes and skin. A number of skin cancers have	
NV Chemicals Bleach 4% SODIUM HYPOCHLORITE WATER Acute Toxicity Skin Irritation/Corrosion Serious Eye	Not available. Asthma-like symptoms may continue for months or even years after exposure condition known as reactive airways dysfunction syndrome (RADS) which car compound. Key criteria for the diagnosis of RADS include the absence of previouse of presistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in the Hypochlorite salts are classified by IARC as Group 3: NOT classifiable as to it humans. Evidence of carcinogenicity may be inadequate or limited in animal to The material may produce moderate eye irritation leading to inflammation. Reconjunctivitis. Hypochlorite salts are extremely corrosive and can cause seven been observed in mice, when applied to their skin. as sodium hypochlorite pentahydrate No significant acute toxicological data identified in literature search.	to the material ceases. This may be due to a non-allergenic occur following exposure to high levels of highly irritating seding respiratory disease, in a non-atopic individual, with abrupt ented exposure to the irritant. A reversible airflow pattern, on on methacholine challenge testing and the lack of minimal ecriteria for diagnosis of RADS. scarcinogenicity to esting. peated or prolonged exposure to irritants may produce e damage to the eyes and skin. A number of skin cancers have	

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hypochlorite	EC50	0.08	Crustacea	0.002mg/L	4
sodium hypochlorite	LC50	96	Fish	0.032mg/L	4
sodium hypochlorite	EC50	48	Crustacea	0.026mg/L	2
sodium hypochlorite	EC50	72	Algae or other aquatic plants	0.0183mg/L	2
sodium hypochlorite	NOEC	72	Algae or other aquatic plants	0.0054mg/L	2
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3

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water	LC50	96	Fish	897.520mg/L	3
Suite V3.12 - Legend: Aquatic	Toxicity Data (Estimated)	,	A Registered Substances - Ecotoxicologica Aquatic Toxicity Data 5. ECETOC Aquatic I on Data 8. Vendor Data	, ,	

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

Product / Packaging

disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
 can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk		Υ	2

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

SODIUM HYPOCHLORITE(7681-52-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Υ

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Canada - DSL	Y
Canada - NDSL	N (water; sodium hypochlorite)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
sodium hypochlorite	7681-52-9, 10022-70-5

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be

found at: www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index