# S-7 SMARTSAN Hand Sanitiser

### Saraya Australia Pty Ltd

Chemwatch: **4728-98** Version No: **8.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 20/11/2017 Print Date: 21/11/2017

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

### **Product Identifier**

Product name	S-7 SMARTSAN Hand Sanitiser	
Synonyms	ot Available	
Proper shipping name	ALCOHOLS, N.O.S. (contains ethanol and isopropanol)	
Other means of identification	Not Available	

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

Relevant identified uses

SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels. For sanitising hands by direct application of the product onto the hands, using several types of spray pack. The product is not rinsed off, but dries by evaporation. NOTE: WARNINGS BELOW ARE FOR EXPOSURE TO LARGE QUANTITIES of THE PRODUCT. NORMAL USAGE SHOULD NOT CREATE HAZARDOUS CONDITIONS.

# Details of the supplier of the safety data sheet

Registered company name	Saraya Australia Pty Ltd	
Address	8 Northumberland Drive Caringbah NSW 2229 Australia	
Telephone	2 9542 7400	
Fax	-61 2 9542 7477	
Website	www.saraya.com.au	
Email	info-au@global.saraya.com	

# **Emergency telephone number**

Association / Organisation	Leon McIndoe	
Emergency telephone numbers	e61 407 229 167	
Other emergency telephone numbers	PIC Australia 13 11 26, PIC NZ 0800 764 766	

### **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

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

Poisons Schedule	Not Applicable		
Classification <sup>[1]</sup>	Flammable Liquid Category 2, Eye Irritation Category 2A		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		

## Label elements

Hazard pictogram(s)





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SIGNAL WORD	DANGER
Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

## Precautionary statement(s) Prevention

<u> </u>	,``	
P210	Geep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use only non-sparking tools.	

# Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	

# Precautionary statement(s) Storage

P403+P235 Store in a well-ventilated place. Keep cool.	
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# Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# **Substances**

See section below for composition of Mixtures

## **Mixtures**

CAS No	%[weight]	Name
64-17-5	>60	ethanol
67-63-0	1-9	isopropanol
		NOTE: Manufacturer has supplied full ingredient
		information to allow CHEMWATCH assessment.

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact    Figure Contact				
Skin Contact	No adverse effects anticipated from normal use. Wipe off excess with absorbent tissue or towel.			
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>			

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- 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.

If swallowed do NOT induce vomiting.

- ▶ 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

For acute or short term repeated exposures to ethanol:

Ingestion

- Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).
- ▶ Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination.
- Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).
- Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.
- Fructose administration is contra-indicated due to side effects.

### **SECTION 5 FIREFIGHTING MEASURES**

### **Extinguishing media**

- Water spray or fog.
- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- · Carbon dioxide.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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# Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> </ul>
Fire/Explosion Hazard	<ul> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>▶ Vapour may travel a considerable distance to source of ignition.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:         <ul> <li>,</li> <li>carbon dioxide (CO2)</li> <li>,</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> </li> </ul>
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# **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

	<ul><li>▶ Remove all ignition sources.</li><li>▶ Clean up all spills immediately.</li></ul>
Minor Spills	Avoid breathing vapours and contact with skin and eyes.
	Control personal contact with the substance, by using protective equipment.
	<ul> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> </ul>

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**Major Spills** 

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.

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

### **SECTION 7 HANDLING AND STORAGE**

Safe handling

### Precautions for safe handling

None required when handling small quantities.

# OTHERWISE:

- ▶ 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 enter confined spaces until atmosphere has been checked.

# Other information

- ▶ Store in original containers in approved flame-proof area.
- ▶ No smoking, naked lights, heat or ignition sources.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- Keep containers securely sealed.
- Store away from incompatible materials in a cool, dry well ventilated area.

### Conditions for safe storage, including any incompatibilities

Suitable container

- Packing as supplied by manufacturer.
- ▶ Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid storage with oxidisers

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# Control parameters

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1880 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethanol	Ethyl alcohol; (Ethanol)	Not Available	Not Available	15000 ppm
isopropanol	Isopropyl alcohol	400 ppm	2000 ppm	12000 ppm

Ingredient	Original IDLH	Revised IDLH
ethanol	3,300 [LEL] ppm	Not Available
isopropanol	2,000 [LEL] ppm	Not Available

# **Exposure controls**

Appropriate engineering

controls

None required when handling small quantities.

### OTHERWISE:

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.

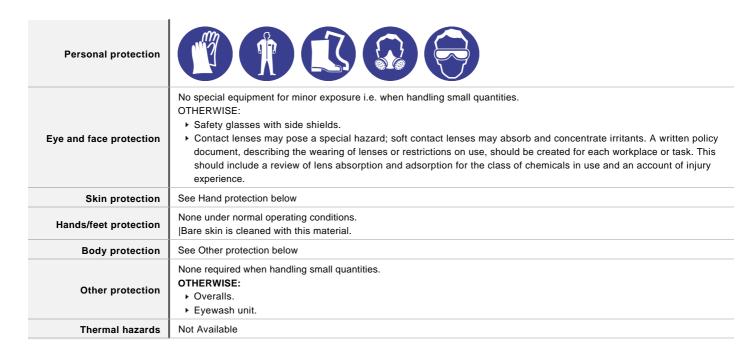
The basic types of engineering controls are:

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. Ventilation can remove or dilute an air contaminant if designed properly.

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# Respiratory protection

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

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Clear highly flammable liquid with low viscosity; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	~21.1 (TCC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	15	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	5.5	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>

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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**

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Inhaled	Not considered an irritant through normal use. Inhalation hazard is increased at higher temperatures. Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea. amp;11s1 amp;51hs
Ingestion	Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and diarrhoea  The material is discomforting and may be harmful if swallowed in quantity and may cause dizziness, disorientation, mental confusion, slurred speech
Skin Contact	Not considered an irritant through normal use.  Excessive use or prolonged contact may lead to defatting, drying and irritation of sensitive skin  Brief and repeated daily use as a skin antiseptic is not harmful.
Eye	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Principal hazards are accidental eye contact and cleaner overuse. Overuse or obsessive cleaner use may lead to defatting of the skin and may cause irritation, drying, cracking, leading to dermatitis.   Indicators are that short term exposure to the material is not harmful.

S-7 SMARTSAN Hand	TOXICITY	IRRITATION	
Sanitiser	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg SEVERE	
ethanol	Inhalation (rat) LC50: 63926.976 mg/l/4h <sup>[2]</sup>	Eye (rabbit):100mg/24hr-moderate	
	Oral (rat) LD50: 7060 mg/kg <sup>[2]</sup>	Skin (rabbit):20 mg/24hr-moderate	
		Skin (rabbit):400 mg (open)-mild	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 12800 mg/kg <sup>[2]</sup>	Eye (rabbit): 10 mg - moderate	
isopropanol	Inhalation (rat) LC50: 72.6 mg/l/4h <sup>[2]</sup>	Eye (rabbit): 100 mg - SEVERE	
	Oral (rat) LD50: 5000 mg/kg <sup>[2]</sup>	Eye (rabbit): 100mg/24hr-moderate	
		Skin (rabbit): 500 mg - mild	
Legend:	1 Value obtained from Furence FOLIA Decistored Subs	stances - Acute toxicity 2.* Value obtained from manufacturer's S	

# ISOPROPANOL

Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	0

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Respiratory or Skin sensitisation	STOT - Repea Expos	
Mutagenicity		rd 🛇

Legend:

🗶 – Data available but does not fill the criteria for classification

✓ – Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

## **Toxicity**

	ENDPOINT	TEST DURATION (HR)	(HR) SPECIES		SOURCE
S-7 SMARTSAN Hand Sanitiser	Not Available	Not Available	Not Available	Not Available	Not Availabl
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	Fish 42mg/L	
ethanol	EC50	48	Crustacea	2mg/L	4
	EC50	96	Algae or other aquatic plants	17.921mg/L	4
	NOEC	2016	Fish	0.000375mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>1400mg/L	4
	EC50	48	Crustacea	Crustacea 12500mg/	
isopropanol	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants >1000mg/L	
	EC29	504	Crustacea	=100mg/L	1
	NOEC	5760	Fish	0.02mg/L	4
Legend:	Toxicity 3. EF	IWIN Suite V3.12 (QSAR) - Aqu	ope ECHA Registered Substances - Ecoto. atic Toxicity Data (Estimated) 4. US EPA, I Data 6. NITE (Japan) - Bioconcentration D	Ecotox database - Aqua	•

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)

## Bioaccumulative potential

•	
Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
isopropanol	LOW (LogKOW = 0.05)

# Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
isopropanol	HIGH (KOC = 1.06)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Product / P	ackaging
	disposal

- $\ensuremath{\blacktriangleright}$  Consult manufacturer for recycling options and recycle where possible .
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Incinerate residue at an approved site.
- ▶ Recycle containers if possible, or dispose of in an authorised landfill.

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# **SECTION 14 TRANSPORT INFORMATION**

# **Labels Required**



Marine Pollutant

INO

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# Land transport (ADG)

UN number	1987	
ON Humber	1907	
UN proper shipping name	ALCOHOLS, N.O.S. (contains ethanol and isopropanol)	
Transport hazard class(es)	Class 3 Subrisk Not Applicable	
Packing group	II	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions 274 Limited quantity 1 L	

# Air transport (ICAO-IATA / DGR)

1987			
Alcohols, n.o.s. * (contains ethanol and isopropanol)			
ICAO/IATA Class 3			
ICAO / IATA Subrisk	ICAO / IATA Subrisk Not Applicable		
ERG Code	3L		
II .			
Not Applicable			
Special provisions		A3 A180	
Cargo Only Packing Instructions		364	
Cargo Only Maximum Qty / Pack		60 L	
Passenger and Cargo Packing Instructions		353	
Passenger and Cargo Maximum Qty / Pack		5 L	
Passenger and Cargo Limited Quantity Packing Instructions		Y341	
Passenger and Cargo Limited Maximum Qty / Pack		1 L	
	Alcohols, n.o.s. * (contained of the contained of the con	Alcohols, n.o.s. * (contains ethanol and isopropanol)  ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L  II  Not Applicable  Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions	Alcohols, n.o.s. * (contains ethanol and isopropanol)  ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L  II  Not Applicable  Special provisions A3 A180 Cargo Only Packing Instructions 364 Cargo Only Maximum Qty / Pack 60 L Passenger and Cargo Packing Instructions 353 Passenger and Cargo Maximum Qty / Pack 5 L Passenger and Cargo Limited Quantity Packing Instructions Y341

# Sea transport (IMDG-Code / GGVSee)

UN number	1987		
UN proper shipping name	ALCOHOLS, N.O.S. (contains ethanol and isopropanol)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E , S-D Special provisions 274 Limited Quantities 1 L		

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

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

### ETHANOL(64-17-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

### ISOPROPANOL(67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified
	by the IARC Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (ethanol; isopropanol)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	Υ
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

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.

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

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