

# SAFETY DATA SHEET



## FIRE FIX

### ACTICHEM PTYLTD

Catalogue number: DR986

Version No: 2.1

Issue date: 24/05/2021

Safety Data Sheet according to WHS and ADG requirements

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

### Product Identifier

Product name	FIRE FIX
Product code	DR986
Pack sizes	5L & 15L

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

Relevant identified uses	Fire restoration cleaner for soft and non-resilient surfaces
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### Details of the manufacturer/importer

Registered company name	ACTICHEM PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

### Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	Not Available

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
GHS Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 1 <i>Classification drawn from HCIS and ECHA C&amp;L Inventory.</i>

### Label elements

Hazard pictogram	
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SIGNAL WORD	<b>DANGER</b>
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### Hazard statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage

### Precautionary statement(s) Prevention

P280	Wear protective gloves and eye protection.
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**Precautionary statement(s) Response**

P305+P310 +P351+P338	IF IN EYES: Immediately call a POISON CENTRE or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352+P362+P332+P313	IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice / attention.

**Precautionary statement(s) Storage**

Not applicable

**Precautionary statement(s) Disposal**

Not applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
7320-34-5	10-<30	<u>Tetrapotassium pyrophosphate</u>
64-02-8	<10	<u>EDTA tetrasodium salt</u>
532-32-1	<10	<u>Sodium benzoate</u>
141-42-5	<10	<u>Monoethanolamine</u>
9016-45-9	<10	<u>Nonylphenol ethoxylated</u>
Trade secret	<10	<u>Proprietary surfactant A</u>
Trade secret	<10	<u>Proprietary surfactant B</u>
Trade secret	<10	<u>Proprietary surfactant C</u>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with the eyes: Wash out immediately with fresh running water for 10-15 minutes. 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. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
<b>Ingestion</b>	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

<b>Extinguishing media</b>	The product contains a substantial amount of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas
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**Special hazards arising from the substrate or mixture**

<b>Fire incompatibility</b>	None known
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**Advice for firefighters**

<b>Fire Fighting</b>	Alert Fire Brigade and tell them location and nature of 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 firefighting procedures suitable for surrounding area. <b>DO NOT</b> approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
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<b>Fire/Explosion Hazard</b>	The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), phosphorus oxides (PO <sub>x</sub> ) and other pyrolysis products typical of burning organic material May emit corrosive fumes.
<b>HAZCHEM</b>	Not applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Minor Spills</b>	Flush away with copious amounts of water.
<b>Major Spills</b>	Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
<b>PPE</b>	Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

<b>Safe handling</b>	Avoid all personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. <b>When handling, DO NOT eat, drink or smoke.</b> Keep containers securely sealed when not in use. Avoid physical damage to containers.
<b>Other information</b>	

### Conditions for safe storage, including any incompatibilities.

<b>Suitable container</b>	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
<b>Storage incompatibility</b>	None known

## 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	monoethanolamine	Ethanolamine	7.5 mg/m <sup>3</sup> / 3 ppm	15 mg/m <sup>3</sup> / 6 ppm	Not Available	Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
monoethanolamine	Ethanolamine	6 ppm	6 ppm	1000 ppm
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA)	30 mg/m <sup>3</sup>	330 mg/m <sup>3</sup>	2000 mg/m <sup>3</sup>
potassium pyrophosphate	Potassium pyrophosphate; (Tetrapotassium diphosphonate)	22 mg/m <sup>3</sup>	250 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
sodium benzoate	Benzoic acid, sodium salt	61 mg/m <sup>3</sup>	680 mg/m <sup>3</sup>	810 mg/m <sup>3</sup>
nonylphenol, ethoxylated	Glycols, polyethylene, mono(p-nonylphenol) ether;	9.9 mg/m <sup>3</sup>	110 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>

Ingredient	Original IDLH	Revised IDLH
monoethanolamine	1,000 ppm	30 ppm
EDTA tetrasodium salt	Not Available	Not Available
potassium pyrophosphate	Not Available	Not Available
sodium benzoate	Not Available	Not Available
nonylphenol, ethoxylated	Not Available	Not Available

### Exposure controls

<b>Appropriate engineering controls</b>	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
<b>Personal protection</b>	
<b>Eye and face protection</b>	Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	Wear elbow length chemical protective gloves. Neoprene or butyl are recommended for this application.
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	Barrier cream. Skin cleansing cream. Eye wash unit.
<b>Thermal hazards</b>	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Clear yellow liquid		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	Not Available
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	11	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

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

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on toxicological effects**

<b>Inhaled</b>	Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Not normally a hazard due to non-volatile nature of product The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by inhalation'. This is because of the lack of corroborating animal or human evidence.
<b>Ingestion</b>	Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
<b>Skin Contact</b>	The material can produce severe chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. 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. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep.
<b>Eye</b>	If applied to the eyes, this material causes severe eye damage. Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness.
<b>Chronic</b>	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

**Toxicological effects of ingredients**

<b>tetrapotassium pyrophosphate</b>	Acute toxicity	Oral LD50 (rabbit) >1000 mg/kg Dermal LD50 (rabbit) >4640 mg/kg
	Skin corrosion/irritation	Causes skin irritation. Irritation is likely to be more severe if the skin is moist or wet
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	EU/CLP • Classification criteria not met
	Germ cell mutagenicity	EU/CLP • Classification criteria not met
	Carcinogenicity	Does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens
	Reproductive toxicity	EU/CLP • Classification criteria not met
	STOT (single exposure)	EU/CLP • Classification criteria not met
	STOT (repeated exposure)	EU/CLP • Classification criteria not met
	Aspiration toxicity	EU/CLP • Classification criteria not met
<b>monoethanolamine</b>	Acute toxicity	Oral LD50 (rat) 1089 mg/kg Dermal LD50 (rat) 2504 mg/kg Inhalation LC50 >1300 mg/m <sup>3</sup> 6h
	Skin corrosion/irritation	Causes severe skin burns and eye damage.
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No sensitizing effect
	Germ cell mutagenicity	The substance was not genotoxic in a test with mammals
	Carcinogenicity	Not carcinogenic
	Reproductive toxicity	Not classified
	STOT (single exposure)	May cause respiratory irritation
	STOT (repeated exposure)	The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies
	Aspiration toxicity	No aspiration hazard expected
<b>EDTA tetrasodium salt</b>	Acute toxicity	Oral LD50 (rat): >1780 - <2000 mg/kg
	Skin corrosion/irritation	Contact with skin may result in irritation
	Eye damage/irritation	Irritant (rabbit).
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	No adverse effect observed
	Carcinogenicity	Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>sodium benzoate</b>	Acute toxicity	Oral LD50 (rat) 4070 mg/kg Dermal LD50 (rat) 2100 mg/kg
	Skin corrosion/irritation	May cause skin irritation
	Eye damage/irritation	May cause irritation, redness and pain
	Respiratory/skin sensitization	No available data
	Germ cell mutagenicity	Classified POSSIBLE for human. May cause adverse reproductive effects and birthdefects (teratogenic)
	Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity	DEVELOPMENTAL TOXOCOTY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male.[SUSPECTED]
	STOT (single exposure)	No available data
	STOT (repeated exposure)	Repeated or prolonged exposure to the substance can produce target organs damage. May cause damage to the following organs: blood, the reproductive system, liver, central nervous system
	Aspiration toxicity	No available data

<b>nonylphenol ethoxylated</b>	Acute toxicity	Oral LD50 (mouse) 4290 mg/kg
	Skin corrosion/irritation	moderate to severe irritation.
	Eye damage/irritation	moderate to severe irritation
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not genotoxic
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>Proprietary surfactant A</b>	Acute toxicity	Oral LD50 (rat) 16800 mg/kg
	Skin corrosion/irritation	Skin irritation
	Eye damage/irritation	Eye irritation
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
<b>Proprietary surfactant B</b>	Acute toxicity	Oral LD50 (rat) 7000 mg/kg
	Skin corrosion/irritation	Mild skin irritation.
	Eye damage/irritation	Eye irritation.
	Respiratory/skin sensitization	No data available.
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	No data available
<b>Proprietary surfactant C</b>	Acute toxicity	Oral LD50 (rat) 2292 mg/kg
	Skin corrosion/irritation	Skin irritant
	Eye damage/irritation	Eye irritant (OECD 437)
	Respiratory/skin sensitization	There is no data available
	Germ cell mutagenicity	No known significant effects or critical hazards.
	Carcinogenicity	No known significant effects or critical hazards.
	Reproductive toxicity	No known significant effects or critical hazards.
	STOT (single exposure)	There is no data available
	STOT (repeated exposure)	There is no data available
	Aspiration toxicity	There is no data available

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

	Endpoint	Duration (Hr.)	Species	Value
<b>potassium pyrophosphate</b>	LC50	96	Fish	>100mg/L
	EC50	48	Crustacea	>100mg/L
	EC50	72	Algae or other aquatic plants	>100mg/L
	NOEC	72	Algae or other aquatic plants	>100mg/L
<b>monoethanolamine</b>	LC50	96	Fish	2-70mg/L
	EC50	48	Crustacea	32.6mg/L
	EC50	72	Algae or other aquatic plants	2.1mg/L
	NOEC	504	Crustacea	0.85mg/L
<b>EDTA tetrasodium salt</b>	LC50	96	Fish	41mg/L
	EC50	48	Crustacea	140mg/L
	EC50	72	Algae or other aquatic plants	=1.01mg/L
	EC10	72	Algae or other aquatic plants	=0.48mg/L
	NOEC	33	Algae or other aquatic plants	0.0003802-mg/L
<b>sodium benzoate</b>	LC50	96	Pimephales promelas (fathead minnow)	484 mg/L
<b>nonylphenol ethoxylated</b>	NOEC	36.5	Fish	0.0001-mg/L
<b>proprietary surfactant A</b>	LC50	96	Fathead minnow (Pimephales promelas).	60.6 mg/l
	LC50	24	Fathead minnow (Pimephales promelas).	100 – 250 mg/l
<b>proprietary surfactant B</b>	EC50	48	Daphnia	37.9 mg/L
	LC50	96	Fish	36.9 mg/L

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
monoethanolamine	LOW	LOW
nonylphenol, ethoxylated	LOW	LOW

**Bio accumulative potential**

Ingredient	Bioaccumulation
monoethanolamine	LOW (LogKOW =-1.31)
nonylphenol, ethoxylated	LOW (BCF = 16)

**Mobility in soil**

Ingredient	Mobility
monoethanolamine	HIGH (KOC = 1)
nonylphenol, ethoxylated	LOW (KOC = 940)

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

Product / Packaging disposal	
	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

Marine Pollutant	
	NO
HAZCHEM	
	Not Applicable

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

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****POTASSIUM PYROPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**MONOETHANOLAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
 Australian Inventory of Industrial Chemicals (AIIC)

**EDTA TETRASODIUM SALT IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  
 Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM BENZOATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**NONYLPHENOL, ETHOXYLATED IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

**SECTION 16 OTHER INFORMATION****Revision Schedule**

Revision Date	
	21/05/2021
Initial Date	
	08/12/2016

**SDS Version Summary**

Version	Issue Date	Sections Updated
2.1	21/05/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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#### 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 Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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**End of SDS**