


Country: RSA, NAM, BOT, ZAM, MOZ
 Language: English
 Version: 1

SDS Number: 000042
 Issue Date: 2021-05-01
 Print Date: 2021-05-18

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

Product identifier				
Product form		Mixtures		
Trade name		Malasol®		
Product code		100ml 20785 (6001379010922); 200ml 20806 (6001379010939); 500ml 20849 (6001379010946)		
Registration Number		L1353 & G 635 / N-AR 0137 / W 130186 / IP-PN4411 / DSV - 2197		
SDS Number		000042		
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. Relevant identified uses				
Main use category		Insecticide – Plant Protection Product		
Industrial/Professional use spec		Home and Garden.		
Use of the substance/mixture		Insecticide.		
1.1.2. Uses advised against				
		See product label for restrictions.		
1.3. Details of the supplier of the safety data sheet				
		Agro-Serve (Pty) Ltd trading as Efekto 15 Diesel Road, Isando, 1600, South Africa P.O. Box 652147, Benmore, 2010, South Africa		
Telephone		+27 11 (011) 287 5700		
Email		info@efekto.co.za		
Website		www.efekto.co.za		
1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	Comment
South Africa	Griffon Poisons Centre		082 446 8946	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture				
Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures				
		Oral Acute Tox.: Category 5 H303 May be harmful if swallowed.		
		Aspiration hazard: Category 1: H304 May be fatal if swallowed and enters airways.		
		Dermal Acute Tox.: Category 5 Skin Irrit. 3 H313 May be harmful in contact with skin		
		Dermal Acute Tox.: Category 5 Skin Irrit. 3 H316 Causes mild skin irritation		
		Skin sensitizer Skin Sens.: Category 1 H317 May cause an allergic skin reaction		
		Eye Irrit.: Category 2/2A H319 Causes serious eye irritation.		
		Inhalation Acute Tox.: Category 2 H330 Fatal if inhaled.		
		Specific target organ toxicity - single exposure: Category 3: H335 May cause respiratory irritation.		
		Specific target organ toxicity - repeated exposure - Category 2 - H373		
		Acute aquatic toxicity: Category 1: H400 Very toxic to aquatic life.		
		Chronic aquatic toxicity: Category 1: H410 Very toxic to aquatic life with long lasting effects.		
2.2. Label elements				
Labelling according to Regulation (EC) No. 1272/2008 [CLP]				
				
Hazard pictograms:	GHS01	GHS02	GHS07	GHS09
Hazardous components which must be listed on the label:		• Mercaptothion		
CLP Signal word:		Danger		
Hazard statements:		H303: May be harmful if swallowed.		
		H304: May be fatal if swallowed and enters airways.		
		H313: May be harmful in contact with skin.		
		H316: Causes mild skin irritation.		
		H317: May cause an allergic skin reaction.		
		H319: Causes serious eye irritation.		
		H330: Fatal if inhaled.		
		H410 Very toxic to aquatic life with long lasting effects.		
Precautionary statements:		P102 Keep out of reach of children.		

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	P103 Read label before use.
	P260: Do not breathe mist/spray.
	P264: Wash hands and face thoroughly after handling.
	P273: Avoid release into the environment.
	P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Response Precautionary Statements:	P301/310: IF SWALLOWED: Immediately call a POISON CENTER.
	P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310: Immediately call a POISON CENTRE.
	P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
	P331: Do NOT induce vomiting.
	P333/313: If skin irritation or rash occurs: Get medical advice.
	P391: Collect spillage.
	P391 Collect spillage
	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
	EUH208 Contains: 3-Chloro-1,2-propylene oxide (epichlorohydrin). May produce an allergic reaction.
	EUH401 To avoid risks to human health and the environment, comply with the instructions for use
2.3. Other hazards	
	Cholinesterase inhibitor. This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

SECTION 3: Composition/information on ingredients

3.1. Substances

Emulsifiable Concentrate (EC)
 Biocidal product

3.2. Mixtures

Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification
Mercaptothion (Malathion) (diethyl 2-dimethoxyphosphinothioylsulfanylbutanedioate)	121-75-5	204-497-7	48,08%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 4 (H413)
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	247-557-8	< 5%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 4 (H413)
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	265-198-5	< 50%	Asp. Tox. 1 (H304)
Other ingredients (non-hazardous) to 100%			Balance	100 %

Further information

Mercaptothion 121-75-5 M-Factor: 1 (acute)

For the full text of the Hazard statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.
First-aid measures after inhalation	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

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First-aid measures after skin contact	Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.
First-aid measures after eye contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.
First-aid measures after ingestion	Immediately call a poison control centre or doctor. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
4.2. Most important symptoms and effects, both acute and delayed	
	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
4.3. Indication of any immediate medical attention and special treatment needed	
	Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. Probable mucosal damage may contraindicate the use of gastric lavage. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor or going for treatment. Skin contact may aggravate pre-existing dermatitis.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	Water jet.
5.2. Special hazards arising from the substance or mixture	
	Dangerous gases are evolved in the event of a fire.
5.3. Advice for firefighters	
	Special protective equipment for fire-fighters
	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
5.3. Further information	
	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	None known.

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	Do not allow to enter soil, waterways or wastewater canal.
6.3. Methods and material for containment and cleaning up	
For containment	Collect spillage.
Methods for cleaning up	For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Collect waste in suitable containers, which can be labelled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Store in original container. Keep away from direct sunlight. Protect from freezing.
Storage temperature	>0°C <40°C
7.3. Specific end use(s)	
	Refer to the label and/or leaflet.

SECTION 8: Exposure controls/personal protection

Control parameters				
Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
Mercaptothion	121-75-5	1 mg/m3 SKIN, BEI 10 mg/m3	fraction and vapor TWA TWA OEL-RL	ACGIH ACGIH TWA ZA OEL
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	154 ppm	TWA	WEL STEL
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	116 mg/m3	TWA	EU SCOELS

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Appropriate engineering controls:	In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.
Hand protection:	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet. Material Nitrile rubber Rate of permeability > 480 min Glove thickness > 0.4 mm Protective index Class 6 Directive Protective gloves complying with EN 374.
Eye protection:	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin and body protection:	Wear standard coveralls and Category 3 Type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If there is a risk of significant exposure, consider a higher protective type suit.
Respiratory protection:	Wear a compressed air respirator (continuous flow) conforming to European Norm EN14594 or EN14593-1 or equivalent or a particle filter mask (protection factor 40) conforming to EN136P3 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
	
General protective measures:	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is

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	recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.
Environmental exposure controls:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless to yellow
Odour	Characteristic
Odour threshold	Not determined due to potential health hazard by inhalation.
Melting point / Freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Flammable
Lower and upper explosion limit	Product is combustible. As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Flash point	95 °C Method: Directive 67/548/EEC, Annex V, A.9.
Auto ignition temperature	> 400 °C Method: EEC A.15
Decomposition temperature	No data available
pH	4,27 1% CIPAC MT 75
Kinematic viscosity	No data available
Solubility	Immiscible
Partition coefficient octanol / water (log value)	No data available
Vapour pressure	0.366637 kPa @ 25°C.
Density Solubility	Not applicable
Relative density	1,04 g/cm ³ at 20 °C
Particle characteristics	Not applicable
9.2. Other information	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Store only in the original container.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Formulated Product	
LD50 oral rat	LD50 (rat) 1375-2800 mg/kg
LD50 dermal rabbit	LD50 (rabbit) 4100 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) >5.2 mg/L (4 hr)
Skin irritation	Mild irritant.
Eye irritation	Causes moderate eye irritation
Sensitisation	May cause skin sensitisation or allergic reactions in sensitive individuals.
STOT-single exposure	Causes damage to organs if swallowed.
STOT-repeated exposure	Not classified based on available information.
Aspiration hazard	Based on available data, the classification criteria are not met.
Assessment mutagenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Assessment carcinogenicity	Species: Rat Application Route: Ingestion Exposure time: 24 month(s) NOAEL: 6,000 ppm

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	Result: positive Carcinogenicity - Assessment : Occurrence of tumours has been observed at excessive exposure levels. This can be considered as not relevant for possible carcinogenicity to humans during normal use.
Assessment toxicity to reproduction	Suspected of damaging fertility or the unborn child. Symptoms: Reduced offspring weight gain
Assessment developmental toxicity	Test Type: Two-generation study Species: Rat, male and female General Toxicity F1: NOAEL: 132 - 152 mg/kg bw/day Symptoms: Reduced offspring weight gain.
Further information	Misuse can be harmful to health.






SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Mercaptothion	
LC50 fish 1	Oncorhynchus mykiss (rainbow trout): 0.18 mg/l Exposure time: 96 h
EC50 Daphnia 1	Daphnia magna (Water flea): 0.72 µg/l Exposure time: 48 h
ErC50 (algae) 1	Selenastrum capricornutum (green algae): 4.06 mg/l Exposure time: 72 h
ErC50 (algae) 2	Green algae (Scenedesmus obliquus) > 0.3 mg/l; Exposure time: 72 h
Bees LD50 (oral)	0.38 µg / bee
Bees LC50 (contact)	0.27 µg / bee
Earthworm LC50 (14 days)	Eisenia fetida (earthworms): 613 mg/kg Exposure time: 14 d
Birds Oral LD50	Colinus virginianus (Bobwhite quail): 3,497 mg/kg Exposure time: 5 d
Birds LC50 (8-day diet)	Anas platyrhynchos (Mallard duck): 1,485 mg/kg
12.2. Persistence and degradability	
Persistence and degradability	Mercaptothion is biodegradable but does not fulfil criteria for being readily biodegradable.
12.3. Bioaccumulative potential	
Log Pow	Bioconcentration potential is low (BCF 95).
Bioaccumulative potential	Bioaccumulation is unlikely.
12.4. Mobility in soil	
Ecology - soil	Mercaptothion is of medium mobility in soil under normal conditions, but degrades rapidly. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.
12.5. Results of PBT and vPvB assessment	
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.






SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / AND / RID				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
				
14.2. UN proper shipping name				

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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MERCAPTOTHION MIXTURE), 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MERCAPTOTHION MIXTURE), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MERCAPTOTHION MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MERCAPTOTHION MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MERCAPTOTHION MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

SECTION 15: Regulatory information

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

Registration No.	L1353 & G 635 / N-AR 0137 / W 130186 / IP-PN4411
Signal word:	Caution!
This chemical is a registered pesticide product and is subject to certain labelling requirements under law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.	
Hazard statements:	Do not use where milk is processed or stored. Handle with care. Poisonous by contact, swallowing and inhalation. Toxic to fish, bees and wildlife. Flammable: do not store or use near open flame. Store away from food and feed. Keep out of reach of children, uninformed persons and animals. Keep container well closed. The water diluted spray might cause slight staining of walls painted with distemper or similar paints.
WHO-classification:	III (Slightly hazardous)
Classification according to GHS:	Cat. 2
Classification according to GPIC (Active):	Cat. III
IRAC Insecticide Group Code:	1B
15.2. Chemical safety assessment	
	Young people under the age of 18 are not allowed to work with the substance.

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
Full text of H- and EUH-statements:			
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		

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HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 2	Flammability - 2	Physical Hazard - 0	PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard			

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE	Acute toxicity estimate.
CAS-Nr.	CAS-Nr. Chemical Abstracts Service number.
CEILING	Ceiling Limit Value.
Conc.	Concentration.
EC-No.	European community number.
ECx	Effective concentration to x %.
IATA	International Air Transport Association.
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code).
ICx	Inhibition concentration to x %.
IMDG	International Maritime Dangerous Goods.
LCx	Lethal concentration to x %.
LDx	Lethal dose to x %.
LOEC/LOEL	Lowest observed effect concentration/level.
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships.
N.O.S.	Not otherwise specified.
NOEC/NOEL	No observed effect concentration/level.
OECD	Organization for Economic Co-operation and Development.
OES	Occupational Exposure Standard.
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
SK-SEN	Skin sensitiser.
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15-minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
UN	United Nations.
WHO	World health organisation.

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End of Safety data Sheet