

Safety Data Sheet

According to 1907/2006/EC; 453/2010/EU; 2015/830/EU (REACH)



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

SDS Number: 000010
 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		Stalkborer Granules Plus		
Product code		1kg 31593 (6001379101477)		
Registration Number		L9988 / N-AR1358		
SDS Number		000010		
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. Relevant identified uses				
Main use category		Insecticide - Control of stalkborer.		
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				
		Acute toxicity: Category 4: H302 Harmful if swallowed.		
		Acute toxicity (inhalation:dust,mist): Category 4: H332		
		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:		 		
		GHS07 GHS09		
Hazardous components which must be listed on the label:		<ul style="list-style-type: none"> • Deltamethrin • Piperonyl butoxide 		
CLP Signal word:		Warning		
Hazard statements:		H302 - Harmful if swallowed. H332 - Toxic if inhaled. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.		
Precautionary statements:		EUH066 - Repeated exposure may cause skin dryness or cracking. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection.		
Response Precautionary Statements:		P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P305 + P 351 + P338 IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311 - If exposed or concerned: CALL POISON CENTRE / doctor / physician.		

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	P310 - Immediately call a POISON CENTER or doctor/physician. P330 - Rinse mouth.
	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.
2.3. Other hazards	Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3: Composition/information on ingredients

3.1. Substances

	Granular Bait (GB)
	Biocidal product

3.2. Mixtures

Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification
Deltamethrin [(S)-Cyano-(3-phenoxyphenyl)-methyl] (1R,3R)-3-(2,2-dibromoethenyl)-2,2-dimethyl-cyclopropane-1-carboxylate	52918-63-5	258-256-6	0.075 %	Acute Tox. 4, (H332) Acute Tox. 4, (H302) Aquatic Acute 1, (H400) Aquatic Chronic 1, (H410)
Piperonyl Butoxide 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole	51-03-6	200-076-7	0.30 %	Aquatic Acute 1, (H400) Aquatic Chronic 1, (H410)
Other ingredients (non-hazardous) to 100%			Balance	

Further information

Deltamethrin	52918-63-5	M-Factor: 1,000,000 (acute); 1,000,000 (chronic)
Piperonyl butoxide	51-03-6	M-Factor: 1 (acute); 1 (chronic)

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	Remove contaminated clothing immediately and dispose of safely.
First-aid measures after inhalation	Move the victim to fresh air and keep at rest. Call a physician or poison control centre immediately.
First-aid measures after skin contact	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
First-aid measures after eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
First-aid measures after ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

	Local: Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing.
	Systemic: Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy.

4.3. Indication of any immediate medical attention and special treatment needed

	Risks This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
	Local treatment: Initial treatment: symptomatic.
	Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used.

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Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.

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.

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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
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.

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
Deltamethrin	52918-63-5	0.02 mg/m3	TWA	OHS
Piperonyl Butoxide	51-03-6	500 ppm	TWA	OHS

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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:	Chemical resistant nitrile rubber gloves.
Eye protection:	Tightly fitting safety goggles.
Skin and body protection:	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection:	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
	
General protective measures:	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
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	Granular
Colour	Light brown
Odour	Aromatic
Odour threshold	No data available
Melting point / Freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Not Flammable
Lower and upper explosion limit	No data available
Flash point	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Immiscible
Partition coefficient octanol / water (log value)	Deltamethrin: log Pow: 6.4 at 25 °C; Piperonyl butoxide: log Pow: 4.75
Vapour pressure	No data available
Density Solubility	No data available
Relative density	No data available
Particle characteristics	No data available
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
Deltamethrin	
LD50 oral rat	LD50 (rat) > 710 mg/kg
LD50 dermal rat	LD50 (rabbit) > 2,000 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) > 2.69mg/l

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ATE CLP (vapours)	3.200 mg/l/4h
ATE CLP (dust, mist)	3.200 mg/l/4h
Piperonyl Butoxide	
LD50 oral rat	4570 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.9 mg/l/4h
Deltamethrin	
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.
Aspiration hazard	May be fatal if swallowed and enters airways.
Assessment mutagenicity	Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Assessment carcinogenicity	Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction	Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.
Assessment developmental toxicity	Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.
Piperonyl Butoxide	
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.
Aspiration hazard	May be fatal if swallowed and enters airways.
Assessment mutagenicity	Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Assessment carcinogenicity	Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction	Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.
Assessment developmental toxicity	Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.
Further information	
	Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Irritating to respiratory system.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.

Deltamethrin

LC50 fish 1	Rainbow trout (<i>Oncorhynchus mykiss</i>) 0.15 µg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (<i>Daphnia magna</i>) 0.0131 µg/l; Exposure time: 48 h
ErC50 (algae)	<i>Scenedesmus quadricauda</i> (Green algae) > 9.1 mg/l; Exposure time: 96 h
Bees LD50 (oral)	79 ng/bee
Bees LC50 (contact)	51 ng/bee
Earthworm LC50 (14 days)	> 1290 mg/kg soil
Birds Oral LD50	Mallard ducks: 4640 mg/kg
Birds LC50 (8-day diet)	Quail: > 5620 mg/kg diet
Birds LC50 (8-day diet)	Mallard ducks: > 8039 mg/kg diet

Piperonyl Butoxide

LC50 fish 1	Sheepshead minnow (<i>Cyprinodon variegatus</i>) 3.94 mg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (<i>Daphnia magna</i>) 0.51 mg/l; Exposure time: 48 h
ErC50 (algae)	Green algae (<i>Selenastrum capricornutum</i>) 3.89 mg/l; Exposure time 72h
Bees LD50 (oral)	611.6 µg a.s.
Bees LC50 (contact)	294 µg a.s.
Earthworm LC50 (14 days)	143.8 mg/kg soil
Birds Oral LD50	Mallard duck (<i>Anas platyrhynchos</i>) >2250 mg/kg
Birds LC50 (8-day diet)	Mallard duck (<i>Anas platyrhynchos</i>) >5620 mg/kg
Birds LC50 (8-day diet)	Northern bobwhite quail (<i>Colinus virginianus</i>) > 5620 mg/kg

12.2. Persistence and degradability

Deltamethrin

Persistence and degradability: Not rapidly biodegradable.
Koc: 10240000

Piperonyl Butoxide

Persistence and degradability: Not readily biodegradable.
Koc: 399 - 830

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12.3. Bioaccumulative potential	
Deltamethrin	
Log Pow	log Pow: 6.4 at 25 °C
Bioaccumulative potential	Does not bioaccumulate.
Piperonyl Butoxide	
Log Pow	log Pow: 4.75
Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	
Deltamethrin	
Ecology - soil	Immobile in soil.
Piperonyl Butoxide	
Ecology - soil	Low mobility soil.
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				
3077	3077	3077	3077	3077
				
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Transport document description				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE) 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN 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

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Registration No.	L9988 / N-AR1358
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:	Allow 14 days between application and grazing or harvest. Harmful when swallowed. May irritate eyes. Toxic to fish and wildlife. Store away from food and feed. Keep out of reach of children, uninformed persons and animals.
	Avoid inhalation of dust and prolonged skin contact. Do not eat, drink or smoke whilst applying or before washing hands. Wash hands with soap and water after use. Prevent contamination of food, feed, drinking water, eating utensils, rivers and dams.
WHO-classification:	III (Slightly hazardous)
IRAC Insecticide Group Code:	3A
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.		
H332	Harmful if inhaled.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
EUH066	Repeated exposure may cause skin dryness or cracking.		
EUH401 -	To avoid risks to human health and the environment, comply with the instructions for use.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4	H302	On basis of test data.	
Acute Tox. 4	H332	On basis of test data.	
Aquatic Acute 1	H400	On basis of test data.	
Aquatic Chronic 1	H410	Calculation method.	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 0	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 %.		

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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