



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Section 1: Identification

Product identifier

Product Name ISR 70-03 WHITE

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Adhesives and/or sealants

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

Manufacturer

Bostik SA
420 rue d'Estienne d'Orves
92700 Colombes
FRANCE
Tel: +33 (0)1 49 00 90 00

E-mail address SDS.AP@Bostik.com

Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
International +64 4 917 9888
Poison Centre : 0800 764 766

Section 2: Hazard identification

GHS Classification

Acute toxicity - Dermal	Category 5 (HSNO - 6.1E)
Reproductive toxicity	Category 2 (HSNO - 6.8B)

Label elements



Signal word
Warning

Hazard statements

H313 - May be harmful in contact with skin
H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements - Prevention

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 3: Composition/information on ingredients

Chemical name	CAS No	Weight-%
Carbonic acid, calcium salt (1:1)	471-34-1	40 - <80
Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy-].alpha.,.alpha.',.alpha."-1,2,3-Propanetriyltris[.omega.-(3-dimethoxymethylsilyl)propoxy] poly[oxy(methyl-1,2-ethanediyl)]	75009-88-0	20- <40
Trimethoxyvinylsilane	151865-59-7	20- <40
Titanium dioxide	2768-02-7	1 - <3
1-Propanamine, 3-(trimethoxysilyl)-	13463-67-7	1 - <3
Fatty acids, C16-18, sodium salts	13822-56-5	1 - <3
Calcium distearate	68424-38-4	0.1- <1
A mixture of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanediolate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane	1592-23-0	0.1- <1
Diocetyl tin oxide	129757-67-1	0.1- <1
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	870-08-6	0.1- <1
Antioxidant	52829-07-9	0.01 - < 0.1
Synthetic antioxidant	--	0.01 - < 0.1
Methyl alcohol	67-56-1	0.01 - < 0.1
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	77-99-6	<0.01
Toluene	108-88-3	<0.01
Methyl alcohol	67-56-1	<0.01
Methyl silicate	681-84-5	<0.01
Inventory blocker	--	<0.01

Non-hazardous ingredients	Proprietary	Balance
---------------------------	-------------	---------

Section 4: First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash skin with soap and water.

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Ingestion Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Small amounts of toxic methanol are released by hydrolysis.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 5: Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Silicon oxides. Silicon dioxide.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep away from food, drink and animal feeding stuffs.

Recommended storage temperature Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

Incompatible materials None known based on information supplied.

Section 8: Exposure controls/personal protection

Control parameters

Exposure Limits This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Carbonic acid, calcium salt (1:1) 471-34-1	TWA: 10 mg/m ³	-	-	TWA: 10 mg/m ³
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³
Calcium distearate 1592-23-0	TWA: 10 mg/m ³	TWA: 10 mg/m ³ inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m ³ respirable particulate matter except stearates of toxic metals	-	TWA: 10 mg/m ³
Dioctyltin oxide 870-08-6	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Sk*	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m ³ Skin	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm	TWA: 50 ppm TWA: 191 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ Sk*	TWA: 50 ppm TWA: 191 mg/m ³ STEL: 150 ppm STEL: 574 mg/m ³
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

	STEL: 328 mg/m ³ Skin		STEL: 333 mg/m ³ Sk*
Methyl silicate 681-84-5	TWA: 1 ppm TWA: 6 mg/m ³	TWA: 1 ppm	- TWA: 1 ppm TWA: 6 mg/m ³

Biological occupational exposure limits This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	New Zealand	ACGIH
Methyl alcohol 67-56-1	15 mg/L - urine (Methyl alcohol) - end of shift	15 mg/L - urine (Methanol) - end of shift
Toluene 108-88-3	0.03 mg/L - urine (Toluene) - end of exposure or end of shift 0.3 mg/g creatinine - urine (O-Cresol) - end of exposure or end of shift	0.02 mg/L - blood (Toluene) - prior to last shift of workweek 0.03 mg/L - urine (Toluene) - end of shift 0.3 mg/g creatinine - urine (o-Cresol with hydrolysis) - end of shift
Methyl alcohol 67-56-1	15 mg/L - urine (Methyl alcohol) - end of shift	15 mg/L - urine (Methanol) - end of shift

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance Paste
Color White
Odor Slight.
Odor threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7	
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	Not applicable for liquids .	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	224 °C	
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	6000 - 14000 Pa.s	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Other information		
Softening Point	No information available	
Molecular weight	No information available	
VOC Content (%)	0.01505	
Density	1.50	
Bulk density	No information available	
Particle characteristics		

Section 10: Stability and reactivity

Reactivity

Reactivity Product cures with moisture.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Based on available data, the classification criteria are not met. May be harmful in contact with skin. May cause sensitization in susceptible persons.
Ingestion	Based on available data, the classification criteria are not met.
Symptoms	No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal)	4,003.10 mg/kg
ATEmix (inhalation-vapor)	394.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbonic acid, calcium salt (1:1)	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus) OECD 402	LC50 (4h) >3mg/ml (Rattus)
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 10000 mg/Kg	= 5.09 mg/L (Rattus) 4 h
1-Propanamine, 3-(trimethoxysilyl)-	LD50 (Rattus) > 2000 mg/ kg (2,97 ml/kg) (OECD 401)	LD50 (Oryctolagus cuniculus) > 2000 mg/kg 11,3 ml/kg) OECD 402	-
Fatty acids, C16-18, sodium salts	>5000 mg/kg (Rattus)(OECD 401)	> 2 mL/kg (Oryctolagus cuniculus)	-
Calcium distearate	>10 g/kg (Rattus)	> 2000 mg/kg (Rat)	-
A mixture of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanediolate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane	LD50 >2000 mg/Kg (Rattus) OECD 401	LD50 >2000 mg/Kg (Rattus) OECD 402	-
Diocetyl tin oxide	=2500 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	-
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	LD50 (Rattus) > 2000 mg/kg OECD 423	LD50 (Rattus) > 3 170 mg/kg OECD 402	=500 mg/m ³ (Rattus) 4 h
Methyl alcohol	=2500 mg/kg (Rattus)	200-1000 mg/kg (Oryctolagus cuniculus)	=22500 ppm (Rattus) 8 h = 64000 ppm (Rattus) 4 h
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	=14700 mg/kg (Rattus)	>10000 mg/Kg (Oryctolagus cuniculus)	>0.29 mg/L (Rattus) 4 h
Toluene	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 h
Methyl alcohol	=2500 mg/kg (Rattus)	200-1000 mg/kg (Oryctolagus cuniculus)	=22500 ppm (Rattus) 8 h = 64000 ppm (Rattus) 4 h
Methyl silicate	-	= 17 g/kg (Oryctolagus cuniculus) = 17 mL/kg (Oryctolagus cuniculus)	= 392.17 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.4	Rabbit	Dermal			Irritant

Serious eye damage/eye irritation No classification is proposed, based on conclusive negative data. By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void).

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 437 Bovine Corneal Opacity and Permeability (BCOP) test	Bovine	Corneal	Product 100 %	10 minutes	Product score <3 Non-irritant

Component Information

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye		24 hours	Non-irritant

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye		72 hours	irritant

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Eye Damage

Respiratory or skin sensitization OECD Test No. 406: Skin Sensitization. No sensitization responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitization in susceptible persons.

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Not a skin sensitizer
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	No sensitization responses were observed

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Not a skin sensitizer

Titanium dioxide (13463-67-7)

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Did not cause sensitization on laboratory animals

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig		No sensitization responses were observed

Toluene (108-88-3)

Method	Species	Exposure route	Results
Regulation (EC) No. 440/2008, Annex, B.6 (Maximization test)	Guinea pig		No sensitization responses were observed

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro	Not mutagenic

Toluene (108-88-3)

Method	Species	Results
Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)	Salmonella typhimurium	Not mutagenic
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	Mouse	Not mutagenic

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
Titanium dioxide - 13463-67-7	-	Group 2B
Toluene - 108-88-3	-	Group 3

Legend

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Not Classifiable

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

Method	Species	Results
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Not Classifiable

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Results
OECD Test No. 414: Prenatal Development Toxicity Study	Rat, Rabbit	Reproductive toxicant

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (77-99-6)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	NOAEL 800 mg/kg bw/day
OECD Test No. 414: Prenatal Development Toxicity Study	Rat	LOAEL 100 mg/kg bw/day

Toluene (108-88-3)

Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

STOT - single exposure Based on available data, the classification criteria are not met.

Diocetyl tin oxide (870-08-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Oral	5 mg/kg	28 days	0.3 - 0.5 mg/kg bw/day May cause damage to the following organs: Immune system

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Respiratory irritation No information available.

Narcotic effects No information available.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413: Subchronic Inhalation Toxicity: 90-day Study	Rat	Inhalation vapor		90 days	0.058 NOAEL

Diocetyl tin oxide (870-08-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat Rabbit			28 days	0.3 -0.5 mg/kg bw/day

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.26	Rat, male, female	Oral		91 days	NOAEL: 625 mg/kg
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat, male, female	Inhalation, vapor			NOAEL: 1.131 mg/l

Aspiration hazard Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

Ecotoxicity

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Aquatic ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Carbonic acid, calcium salt (1:1)	IC50 72H Algae >1000 mg/l	CL50 96H >1000 mg/l	EC50 48H Daphnia >1000 mg/l
Trimethoxyvinylsilane	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	EC50(48hr) 168.7mg/l (Daphnia magna)
Titanium dioxide	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-
1-Propanamine, 3-(trimethoxysilyl)-	EC50 (72h) > 1000 mg/l (Desmodesmus subspicatus) EU Method C.3 (Algal Inhibition test)	LC50 (96h) > >934 mg/L (Danio rerio) OECD 203	EC50 (48h) = 331 mg/L (Daphnia magna) OECD 202
Fatty acids, C16-18, sodium salts	EC50: =120mg/L (96h, Desmodesmus subspicatus)	-	EC50: =86mg/L (72h, Gammarus pulex)
A mixture of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanediolate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane	-	LC50: >58mg/L (96h, Danio rerio)	-
Diocetyl tin oxide	EC50 (3hr) >1.000 mg/l (bacteria) (Activated Sludge, Respiration Inhibition Test)	LC50 (96hr) >0,09 mg/l (Brachydanio rerio (zebra)) (Acute Toxicity Test)	EC50 (48Hr) >0,21 mg/l (Daphnia magna (Daphnia magna)) (Daphnia sp. Acute Immobilisation Test)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	LC50 48Hr 8.58 mg/l (Daphnia magna)
Methyl alcohol	-	LC50 96 h > 100 mg/L (Pimephales promelas static)	-
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	-	LC50: =21700mg/L (48h, Cyprinodon)	EC50: 10330 - 16360mg/L (48h, Daphnia magna) EC50: =13000mg/L (48h, Daphnia species)
Toluene	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
Methyl alcohol	-	LC50: >100mg/L (96h, Pimephales promelas) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: =28200mg/L (96h, Pimephales promelas) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss)	-

Terrestrial ecotoxicity

There is no data for this product.

Chemical name	Earthworm	Avian	Honeybees
Methyl alcohol	Acute Toxicity: LC50 > 1 mg/cm ² (Eisenia foetida, 48 h filter paper)	-	-
Methyl alcohol	Acute Toxicity: LC50 > 1 mg/cm ² (Eisenia foetida, 48 h filter paper)	-	-

Persistence and degradability

No information available.

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	BOD	51 % Not readily biodegradable

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

Method	Exposure time	Value	Results
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	28 days		67 % Not readily biodegradable

Diocetyl tin oxide (870-08-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	755 hours	biodegradation	Not readily biodegradable 2 %

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Exposure time	Value	Results
OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment -- A: Activated Sludge Units; B: Biofilms	28 days	Total organic carbon (TOC)	24 % Moderate

Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy-]	1.8
Trimethoxyvinylsilane	1.1
Fatty acids, C16-18, sodium salts	3.3
A mixture of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanediolate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane	16.8
Diocetyl tin oxide	6
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35
Methyl alcohol	-0.77
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	-0.47
Toluene	3.93
Methyl alcohol	-0.77

Mobility in soil

Other adverse effects

No information available.

Section 13: Disposal considerations

Disposal methods

Waste from residues/unused Dispose of product in packaging in a way that is consistent with the EPA Consolidation

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

products

30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Substances which are hazardous to human health or corrosive to metals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is no tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances. Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging

Handle contaminated packages in the same way as the product itself.

Section 14: Transport information

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

ADR Not regulated

Section 15: Regulatory information

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

National regulations

New Zealand

Chemical name	New Zealand HSNO Chemical Classification
Carbonic acid, calcium salt (1:1) - 471-34-1	- 6.4A (HSR006678)
Trimethoxyvinylsilane - 2768-02-7	- 3.1B,6.1D (All),6.1D (I) (HSR004009)
1-Propanamine, 3-(trimethoxysilyl)- - 13822-56-5	- 6.3A,6.4A (HSR005771)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate - 52829-07-9	- 6.4A,9.1B (All),9.1B (F),9.1B (C),9.1B (A) (HSR005282)
Methyl alcohol - 67-56-1	- 3.1B,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR001186) >44-50% in a non hazardous diluent - 3.1C,6.1C (All),6.1C (O),6.1C (D),6.4A,6.8B,6.9A (All),6.9A (Oth),9.3C (HSR006709) >1-10% in a non hazardous diluent - 6.1E (All),6.1E (O),6.1E (D),6.8B,6.9B (All),6.9B (I) (HSR006431) >25-44% in a non hazardous diluent - 3.1C,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR006428) >18-25% in a non hazardous diluent - 3.1C,6.1D (All),6.1D (O),6.1D (D),6.1D (I),6.4A,6.8B,6.9A (All),6.9A (I) (HSR006430)

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

	>50% in a non hazardous diluent - 3.1B,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR006429)
Toluene - 108-88-3	- 3.1B,6.1D (All),6.1D (O),6.1D (I),6.3A,6.4A,6.8B,6.9B (All),6.9B (I),9.1D (All),9.1D (F),9.1D (C),9.1D (A),9.3C (HSR001227)
Methyl alcohol - 67-56-1	<p>- 3.1B,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR001186)</p> <p>>44-50% in a non hazardous diluent - 3.1C,6.1C (All),6.1C (O),6.1C (D),6.4A,6.8B,6.9A (All),6.9A (Oth),9.3C (HSR006709)</p> <p>>1-10% in a non hazardous diluent - 6.1E (All),6.1E (O),6.1E (D),6.8B,6.9B (All),6.9B (I) (HSR006431)</p> <p>>25-44% in a non hazardous diluent - 3.1C,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR006428)</p> <p>>18-25% in a non hazardous diluent - 3.1C,6.1D (All),6.1D (O),6.1D (D),6.1D (I),6.4A,6.8B,6.9A (All),6.9A (I) (HSR006430)</p> <p>>50% in a non hazardous diluent - 3.1B,6.1C (All),6.1C (O),6.1C (D),6.1C (I),6.4A,6.8B,6.9A (All),6.9A (I),9.3C (HSR006429)</p>
Methyl silicate - 681-84-5	- 3.1B,6.1B (All),6.1B (I),6.3A,8.3A (HSR003026)

National regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Chemical name	Tolerable Exposure Limit (TEL) Air	Tolerable Exposure Limit (TEL) Water	Tolerable Exposure Limit (TEL) Surface	Environmental Exposure Limits (EEL)
Toluene 108-88-3	400 µg/m ³	0.8 mg/L	-	330 µg/L (Water)

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

EPA New Zealand HSNO approval code or group standard

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

SAFETY DATA SHEET

ISR 70-03 WHITE
Revision Number 3.02

Revision date 15-Aug-2021
Supersedes Date: 17-Jul-2019

The Rotterdam Convention Not applicable

Section 16: Other information

Prepared By Product Safety & Regulatory Affairs

Revision date 15-Aug-2021

Revision Note

Not applicable.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet