

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1: Identification of the Substance/Mixture and of the Supplier

Product: **2K Reducer**
 Product Use: Reducing Thinners
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**
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0800 764 766 (National Poison Centre)

Date of SDS Preparation: 29 August 2024 v2

Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Solvents (Flammable) - HSR0002650

Pictograms:



Flammable



Toxic/Irritant



Chronic

Signal Word: **DANGER**

GHS Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 2	H225	Highly flammable liquid and vapour.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical, ventilating and lighting] equipment
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in SDS Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry chemical, foam, or carbon dioxide for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Butyl acetate	45-55	123-86-4
Toluene	15-25	108-88-3
PMA Solvent	8-13	108-65-6
Pegasol 1425	5-10	64742-49-0
Acetone	5-10	67-64-1
Isopropyl Alcohol	1-5	67-63-0
Methyl Isobutyl Ketone	≥1-3	108-10-1

Section 4: First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.

If Swallowed

Rinse mouth. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled

Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	Not applicable.
Inhalation	Harmful if inhaled.
Skin	Causes skin irritation.
Eyes	Causes severe eye irritation.
Chronic	Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Notes to Physician	Exposure to high concentrations of this material (e.g., in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

Section 5: Fire Fighting Measures

Hazard Type	Highly Flammable Liquid
Hazards from products	Oxides of Carbon when burned.
Suitable Extinguishing media	Dry chemical, foam, or carbon dioxide.
Precautions for firefighters and special protective clothing	Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only. Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, etc. away from those fumes.
HAZCHEM CODE	3YE

Section 6: Accidental Release Measures

Evacuate all unnecessary personnel and ventilate area. Extinguish possible sources of ignition. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area.

Do not allow to enter waterways.

Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Place in a container for disposal. Dispose of according to Section 13.

Section 7: Handling and Storage

Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Open container slowly to relieve any pressure.
- Bond and ground all equipment when transferring from one vessel or container to another.

- This material can accumulate static charge by flow or agitation.
- Vapours can be ignited by static discharge.
- Use explosion proof equipment as directed by local fire codes.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Storage:

- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Keep out of reach of children
- Store unopened containers under cool, dry and ventilated conditions.
- Keep away from heat, sparks and flame.
- Store away from incompatible materials listed in Section 10.

Section 8: Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Isopropyl alcohol	[67-63-0]	400	983	500	1,230
n-Butyl acetate	[123-86-4]	150	713	200	950
Toluene (skin) (Toluol)	[108-88-3]	20	75	100	377
Acetone (bio)	[67-64-1]	500	1,185	1,000	2,375
Hexone (Methyl isobutyl ketone)	[108-10-1]	50	205	75	307

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Personal Protection Equipment



- Engineering Controls:** General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.
- Eye / Face Protection:** Wear safety glasses with side shields or goggles when handling this material.
- Body Protection:** PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
- Respiratory Protection:** Avoid breathing vapour or mist. Use NIOSH approved respiratory protection equipment appropriate to the material.

Section 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Clear colourless
Odour	Solvent odour
Odour Threshold	Not available

pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	4°C
Flammability	Highly Flammable
Upper and Lower Explosive Limits	1.2% - 8%
Vapour Pressure	Not available
Vapour Density	3.0
Specific Gravity	0.80
Solubility in Water	Partly soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	485°C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable
Evaporation Rate	Not available
% Volatiles	100

Section 10: Stability and Reactivity

Stability of the Substance:	Stable under normal storage and use conditions.
Conditions to avoid:	Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of Carbon when burned.
Conditions Contributing to Hazardous Polymerization	Will not occur

Section 11: Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled. Mixture rules calculation = LD50 = 2.6mg/L
Eye	Causes severe eye irritation. SPECIES: Rabbit RESULT: The test substance was applied at 0.1 ml to the conjunctival sac of one eye of each of 6 rabbits (sex not reported) Mild iritis was observed in most eyes at 1 hour; slight corneal opacity was observed in 2 eyes at 24 hours, and 1 eye at 48 hours. Moderate conjunctival irritation was present in most eyes at 1 and 24 hours, but was slight at 48 and 72 hours. All eyes were normal by 7 days.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Butyl Acetate (Cas No 123-86-4)	3200 mg/kg (rabbit)	-	2mg/l dust (male rat)
Toluene (108-88-3)	636 mg/kg (rat)	-	12.5 mg/l (vapour) (rat)
IPA (67-63-0)	3600 mg/kg (mouse)	-	-
Acetone (67-64-1)	3000 mg/kg (mouse)	-	-
Methyl Isobutyl Ketone (108-10-1)	1600 mg/kg (guinea pig)	-	-

Section 12: Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Toluene (Cas No 108-88-3):

Route	Species	Duration	Value LC50/EC50
aquatic, fish	oncorhynchus mykiss Rainbow trout, donaldson trout	96 hr	5.8 mg/l
Acute aquatic, Crustacean	Daphnia magna (Crustacea)	48 hr	11.5 mg/l
Chronic, aquatic, Crustacean	Daphnia magna (Crustacea)	21 day	1 mg/L
Aquatic, Algae	Selenastrum capricornutum	72 hr	12.5 mg/l
Bioaccumulative	No		
Rapidly Degradable	Yes		

Butyl Acetate (Cas No 123-86-4):

Route	Species	Duration	Value LC50/EC50
aquatic, fish	Pimephales promelas (Fathead minnow)	96 hr	18 mg/l
aquatic, Crustacean	Artemia salina (Brine shrimp)	48 hr	32 mg/l
Bioaccumulative	No		
Rapidly Degradable	Yes		

Do not allow to enter waterways.

Section 13: Disposal Considerations

Disposal Method: Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled “Hazardous Waste – Flammable” and that the label also has the Flammable Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions: Avoid release to the environment.

Section 14: Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

UN No	1993
Class - Primary	3
Packing Group	II
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Solvents (Flammable) - HSR0002650

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	100L (>5L), 250L (<5L), 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Fire Extinguishers	2 x >250L
Restriction of Use	None

Section 16: Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

Product Name: 2K Reducer
Date of SDS: 29 August 2024

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

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Issue Date: 29 August 2024 Review Date: 29 August 2029