



VORTEX
PREMIUM SOLVENTS

Safety Data Sheet

2K Thinners

Version 1.0

Issue Date 01.10.2023

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Vortex 2K Fast Thinners

Product code 1263

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

Use Solvent. Paint related material.

Manufacturer or supplier's details Nyundo Trading (Pty) Ltd

Company Address
5A Jig Rd
Montague Gardens
Cape Town
South Africa
7441

Telephone +27215102679

E-mail address info@nyundotrading.co.za

Emergency telephone number +27 (0)17 610 4444 (South Africa)
0861 555 777 RSA-Local only

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 2
	Skin irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Reproductive toxicity	Category 2



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Specific target organ toxicity - single exposure (Central nervous system)	Category 3
Specific target organ toxicity - repeated exposure	Category 2
Aspiration hazard	Category 1

Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements



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Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P264 Wash the contact area thoroughly after handling.
- P233 Keep container tightly closed.

Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

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

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

HAZARDOUS INGREDIENTS

Toluene

Contents: < 50.00 %W/W

CAS-No. 108-88-3

Index-No. 601-021-00-3

EC-No. 203-625-9

Hazard statements H225 H315 H373 H304 H336 H361d



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1-Propanol, Hydroxypropane, 1-Propyl alcohol, Ethyl carbinol, n-Propan-1-ol, n-Propyl alcohol, Propyl alcohol

Contents: < 20.00 %W/W

CAS-No. 71-23-8

Index-No.

EC-No.

Hazard statements *H225 H318 H336*

Acetone

Contents: < 20.00 %W/W

CAS-No. 67-64-1

Index-No. 606-001-00-8

EC-No. 200-662-2

Hazard statements *H225 H319 H336*

Butan-2-ol

Contents: < 15.00 %W/W

CAS-No. 78-92-2

Index-No. 603-004-01-3

EC-No. 201-158-5

Hazard statements *H319 H335 H336 H226*

2-butoxyethanol

Contents: < 10.00 %W/W

CAS-No. 111-76-2

Index-No. 603-014-00-0

EC-No. 203-905-0

Hazard statements *H319 H315 H302 H332*

Xylene

Content: < 50.00% W/W

CAS-No. 1330-20-7

Index-No. 601-022-00-9

EC-No. 215-535-7

Hazard statements *H226 H332 H312 H315*



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, get medical attention immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Foam. Dry powder.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures



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Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.
Reference to other sections	Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice	Avoid inhalation of vapour or mist. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment.
Advice on protection against fire and explosion	Keep away from heat and sources of ignition. Use only explosion-proof equipment.
Requirements for storage areas and containers	Keep containers tightly closed in a dry, cool and well-ventilated place.
Advice on common storage	No data available.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
TOLUENE	TWA	188 mg/m ³	1995	South Africa RELs
TOLUENE	TWA	50 ppm	1995	South Africa RELs
TOLUENE	STEL	560 mg/m ³	1995	South Africa RELs
	STEL	150 ppm	1995	South Africa RELs



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ACETONE	TWA	1,780 mg/m ³	1995	South Africa RELs
ACETONE	TWA	750 ppm	1995	South Africa RELs
ACETONE	STEL	3,560 mg/m ³	1995	South Africa RELs
	STEL	1,500 ppm	1995	South Africa RELs
2-BUTOXYETHANOL	TWA	120 mg/m ³	1995	South Africa Control Limits
2-BUTOXYETHANOL	TWA	25 ppm	1995	South Africa Control Limits
ETHYLENE GLYCOL	TWA	120 mg/m ³	1995	South Africa RELs
MONOBUTYL ETHER	TWA	25 ppm	1995	South Africa RELs
ETHYLENE GLYCOL				
MONOBUTYL ETHER				
N-PROPANOL	TWA	500 mg/m ³	1995	South Africa RELs
N-PROPANOL	TWA	200 ppm	1995	South Africa RELs
PROPAN-1-OL	STEL	625 mg/m ³	1995	South Africa RELs
PROPAN-1-OL	STEL	250 ppm	1995	South Africa RELs
SEC-BUTYL ALCOHOL	TWA	300 mg/m ³	1995	South Africa RELs
SEC-BUTYL ALCOHOL	TWA	100 ppm	1995	South Africa RELs
	STEL	450 mg/m ³	1995	South Africa RELs
	STEL	150 ppm	1995	South Africa RELs
CYCLOHEXANE	TWA	340 mg/m ³	1995	South Africa RELs
CYCLOHEXANE	TWA	100 ppm	1995	South Africa RELs
	STEL	1,030 mg/m ³	1995	South Africa RELs
	STEL	300 ppm	1995	South Africa RELs
XYLENE, O-, M-, P- OR	TWA	435 mg/m ³	1995	South Africa RELs
MIXED ISOMERS	TWA	100 ppm	1995	South Africa RELs
XYLENE, O-, M-, P- OR	STEL	650 mg/m ³	1995	South Africa RELs
MIXED ISOMERS	STEL	150 ppm	1995	South Africa RELs
XYLENE, O-, M-, P- OR				
MIXED ISOMERS				

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

Respirator with a vapour filter (EN 141)

Hand protection

Solvent-resistant gloves

Eye protection

Safety glasses with side-shields.

Skin and body protection

Protective suit. Safety shoes.

Hygiene measures

Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

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Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Clear, colourless
Odour	No data available.
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	No data available.
Boiling point/boiling range	74 - 171 ° C; ASTM D86
Flash point	< 10 ° C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapour pressure	No data available.
Relative vapour density	No data available.
Density	0.84 g/cm ³ ; 20 ° C; ASTM D4052
Water solubility	Partly soluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	0.72 mm ² /s; 20 ° C; ASTM D 445

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat.
Materials to avoid	Oxidizing agents. Reducing agents.
Hazardous decomposition products	Carbon oxides

SECTION 11. Toxicological information



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Skin irritation	Toluene: Rabbit: moderately irritating; (literature value)
Skin irritation	Acetone: Rabbit: Irritating; GLP: no; (literature value)
Skin irritation	Propan-1-ol: Rabbit: Not irritating; Draize Test (literature value)
Eye irritation	Acetone: Rabbit: Irritating GLP: no; (literature value)
Eye irritation	Propan-1-ol: Rabbit: Highly irritating 24 - 72 h; (literature value)
Mutagenicity	Acetone: Ames test: Salmonella typhimurium; Not mutagenic; GLP: no; (literature value)

SECTION 12. Ecological information

Toxicity to fish	Toluene: Pimephales promelas; 96 h; LC50; 34.27 mg/l; (literature value);
Toxicity to fish	Toluene: Poecilia reticulata; 96 h; LC50; 59.3 mg/l; (literature value);
Toxicity to fish	Toluene: Cyprinodon variegatus; 96 h; LC50; 277 mg/l; (literature value);
Toxicity to fish	2-butoxyethanol: static test; Carassius auratus (goldfish); 24 h; LC50; (literature value)
Toxicity to fish	Acetone: static test; Salmo gairdneri; 96 h; LC50; > 100 mg/l; (literature value)
Toxicity to fish	Butan-2-ol: static test; Pimephales promelas; 96 h; LC50; 2,993 mg/l; (literature value)
Toxicity to fish	Propan-1-ol: static test; Pimephales promelas; 96 h; LC50; 4,650 mg/l; GLP: no; (literature value)



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Toxicity to daphnia and other aquatic invertebrates	Toluene: Daphnia magna; 48 h; LC50; 313 mg/l
Toxicity to daphnia and other aquatic invertebrates	Acetone: static test; Daphnia magna (Water flea); 48 h; > 100 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	2-butoxyethanol: Daphnia magna; 96 h; LC50; 550 - 950 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	Propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; 3,644 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	Butan-2-ol: static test; Daphnia magna (Water flea); 24 h; EC50; 2,300 mg/IGLP: no; (literature value)
Toxicity to algae	Acetone: static test; Pseudokirchneriella subcapitata (green algae)EC50; > 100 mg/l; (literature value)
Biodegradability	Acetone: Readily biodegradable.; (literature value)
Biodegradability	Propan-1-ol: aerobic; 3 mg/l; 81 %; 20 d; Readily biodegradable.; (literature value)
Biodegradability	Butan-2-ol: aerobic; 86 %; 5 d; GLP: no; (literature value)

SECTION 13. Disposal considerations

Product	Dispose of in accordance with local regulations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information



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DG Pictogram



ADR

UN number: 1263
Class: 3
Packaging group: II; F1;
Proper shipping name: PAINT RELATED MATERIAL

RID

UN number: 1263
Class: 3
Packaging group: II; F1
Proper shipping name: PAINT RELATED MATERIAL

ADNR

UN number: 1263
Class: 3
Packaging group: II; F1
Proper shipping name: PAINT RELATED MATERIAL

IMDG

UN number: 1263
Class: 3
EmS: F-E, S-E
Packaging group: II
Proper shipping name: PAINT RELATED MATERIAL

ICAO/IATA

UN number : 1263
Class: 3
Packaging group: II
Proper shipping name: PAINT RELATED MATERIAL

SECTION 15. Regulatory information



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

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.



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- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

Every reasonable endeavor has been made to prepare this Safety Data Sheet (SDS) in adherence to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS exclusively furnishes details concerning the health, safety, and environmental risks as of the date of issuance. Its purpose is to aid in the secure reception, utilization, and handling of this product in work environments and does not supplant any product specifications or information.

As Nyundo and its affiliated entities cannot foresee or control all circumstances in which this product may be managed, used, or received in workplaces, it is the responsibility of each user, recipient, or handler to assess this SDS within the particular context in which the product will be received, managed, or used. Users, handlers, or recipients must guarantee that appropriate safety measures are established for health and safety. This does not eliminate the necessity for conducting relevant risk assessments as needed.

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