

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations
Issue date: 25/05/2017 Revision date: 3/07/2019 Supersedes: 3/05/2019 Version: 2.0

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture

Trade name : SYSTEM 20 SLOW HARDENER

Product code : \$2033/1, \$2033/25

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Coating

Restrictions on use : Consumer uses: Private households (= general public = consumers)

1.4. Details of manufacturer or importer

Supplier Supplier

U-POL Australia Pty Limited Ltd

U-POL New Zealand Limited Ltd

55 Leland Street c/o Lindsay & Associates Unit H, 12 Amera Place, East Tamaki

Penrith NSW 2750 Manukau City Auckland 2013

Australia New Zealand

T 02 4731 2655 - F 02 4731 2611 T + 612 4731 2655 / 027 630 3691 - F + 612 4731 2611

info@u-pol.com.au - www.u-pol.com info@u-pol.co.nz - www.u-pol.com

1.5. Emergency phone number

Emergency number : Australia (CHEMTREC): + (61) - 290372994 ; New Zealand (National Poisons Centre):

0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 3 H226
Skin sensitisation, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, Respiratory H335

tract irritation

Specific target organ toxicity – Single exposure, Category 3, Narcosis

Aspiration hazard, Category 1

H336

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)







Flame

Exclamation Health hazard

mark

Signal word (GHS AU) : Danger

Contains : hexamethylene diisocyanate oligomers (23-43 %); solvent naphtha (petroleum), light

aromatic (< 60 %); n-butyl acetate (5-23 %); 2-methoxypropyl acetate (< 10 %);

hexamethylene-di-isocyanate (< 10 %)

Hazard statements (GHS AU) : H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

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Precautionary statements (GHS AU) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. heat, hot surfaces, open flames, sparks

P261 - Avoid breathing fume, spray, vapours.

P273 - Avoid release to the environment.

P280 - Wear face protection, protective clothing, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P312 - Call a doctor if you feel unwell.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Additional hazard statements (GHS AU) : AUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
hexamethylene diisocyanate oligomers	28182-81-2	23-43	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
solvent naphtha (petroleum), light aromatic	64742-95-6	< 60	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Other substances (not contributing to the classification of this product)	-	≥ 28.53	-

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : May cause an allergic skin reaction.

4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Hazchem Code : * 3Y

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume,

spray, vapours. 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

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Contain released product. Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, spray,

vapours. Avoid contact with skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Storage temperature : < 25 °C

Storage area : Store in a well-ventilated place. Special rules on packaging : Keep only in original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

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8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Gas mask. Gloves. Protective clothing. Safety glasses.

Materials for protective clothing : Impermeable clothing Hand protection : Protective gloves Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Air-fed respiratory protective equipment should be worn when this product is sprayed

Personal protective equipment symbol(s)









Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : Colourless
Odour : aromatic

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point / Freezing point : No data available Boiling point : No data available

Flash point : 42 °C

Auto-ignition temperature : No data available Flammability : No data available Vapour pressure : No data available Relative density : No data available

Density : Density: 0.99 (0.98 – 1) g/cm³

Solubility : insoluble in water, soluble in most organic solvents.

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : ≈ 17 mm²/s (12s DIN4 @ 20°C)

Explosive properties : No data available
Explosive limits : No data available
Minimum ignition energy : No data available

VOC content : 627 g/l

VOC content - Regulatory : No data available Percent Solids : 36.45 wt%

SECTION 10: Stability and reactivity

Reactivity : Flammable liquid and vapour.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of

ignition.

Incompatible materials : No additional information available

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

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SECTION 11: Toxicological information	SECTION 11:	Toxicolog	gical infor	mation
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Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

solvent naphtha (petroleum), light aromatic (64742-95-6)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 3160 mg/kg (OECD Test Guideline 402)
LC50 Inhalation - Rat (Vapours)	> 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours)

hexamethylene diisocyanate oligomers (28182-81-2)	
LD50 oral rat	> 2500 mg/kg (OECD Test Guideline 423, rat, female)
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402, rat, male/female)
LC50 Inhalation - Rat (Dust/Mist)	0.39 mg/l/4h (OECD Test Guideline 403, rat, female, inhalation, dust/mist)
ATE AU (gases)	4500 ppmv/4h
ATE AU (vapours)	11 mg/l/4h
ATE AU (dust,mist)	0.39 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation. May cause drowsiness or dizziness.

solvent naphtha (petroleum), l	light gramatic (64742 OF 6)
Solveni nabnina (ben oleum). 1	114111 at 0111atile (04742-95-01

STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

hexamethylene diisocyanate oligomers (28182-81-2)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

CVCTE	CLOI	AIIIA	RDENER

Viscosity, kinematic ≈ 17 mm²/s (12s DIN4 @ 20°C)

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

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

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

solvent naphtha (petroleum), light aromatic (64742-95-6)

Partition coefficient n-octanol/water (Log Pow) 2.1 – 6

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12.2. Persistence and degradability

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Persistence and degradability May cause long-term adverse effects in the environment.	

12.3. Bioaccumulative potential

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6
Bioaccumulative potential	Not established.

12.4. Mobility in soil

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SYSTEM 20 SLOW HARDENER	
Fluorinated greenhouse gases	False
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Fluorinated greenhouse gases	False
hexamethylene diisocyanate oligomers (28182-81-2)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG) : 1263 UN-No. (IMDG) : 1263 UN-No. (IATA) : 1263

14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : PAINT RELATED MATERIAL Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Proper Shipping Name (IATA) : Paint

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : 3
Danger labels (ADG) : 3



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IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



14.4. Packing group

Packing group (ADG) : III - Substances presenting low danger

Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Marine pollutant : No Dangerous for the environment : No

Other information : No supplementary information available

14.6. Special precautions for user

Specific storage requirement : No data available Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

UN-No. (ADG) : 1263 Special provision (ADG) : 163, 223, 367

Limited quantities (ADG) : 5

Packing instructions (ADG) : P001, IBC03, LP01

Special packing provisions (ADG) : PP1
Portable tank and bulk container instructions (ADG) : T2
Portable tank and bulk container special provisions : TP1, TP29

(ADG)

Transport by sea

UN-No. (IMDG) : 1263

Special provisions (IMDG) : 163, 223, 367, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1, TP29

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER

Stowage category (IMDG) : A

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

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Air transport

UN-No. (IATA) : 1263 PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3, A72, A192

ERG code (IATA) : 3L

14.8. Hazchem or Emergency Action Code

Hazchem Code : * 3Y

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002662

Group standard : Surface coatings and colourants

n-butyl acetate (123-86-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001091

2-methoxy-1-methylethyl acetate (108-65-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001219

solvent naphtha (petroleum), light aromatic (64742-95-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001503

hexamethylene-di-isocyanate (822-06-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001536

hexamethylene diisocyanate oligomers (28182-81-2)

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003565

15.2. International agreements

No additional information available

SECTION 16: Other information

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Classification	
Flam. Liq. 3	H226
Skin Sens. 1	H317
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304

Full text of H-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

For professional use only.

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