



Safety Data Sheet

Page 1 of 15

TEROSON PU 8519 P

SDS No. : 284600

V001.3

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	TEROSON PU 8519 P
Intended use:	Primer, containing solvents
Supplier:	Henkel New Zealand Ltd 2 Allens Rd East Tamaki Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
E-mail address of person responsible for Safety Data Sheet:	SDSinfo.Adhesive@henkel.com
Emergency Telephone for Chemical Accidents:	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Flammable liquids	Category 2	
Serious eye irritation	Category 2A	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central nervous system

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary Statement(s):	
Prevention:	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/lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing mist/vapours. 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 gloves/protective clothing/eye protection/face protection.
Response:	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture
Solvent mixture

Type of preparation: Adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Butanone	78-93-3	30- < 50 %
Ethyl acetate	141-78-6	20- < 30 %
Carbon black - Nano	1333-86-4	1- < 10 %
n-butyl acetate	123-86-4	1- < 10 %
Phenol, 4-isocyanato-, phosphorothioat	4151-51-3	1- < 10 %
4-isocyanatosulphonyltoluene	4083-64-1	0.1- < 1 %
Non-hazardous ingredients~		remainder up to 100%

SECTION 4 FIRST AID MEASURES

Ingestion: Do not induce vomiting, seek medical advice immediately.

Skin: Rinse with running water and soap.
If adverse health effects develop seek medical attention.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.

Inhalation:	Immediately remove victim to fresh air. Seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing media:	Water jet (solvent-containing product).
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. In the event of a fire, carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x) can be released.
Particular danger in case of fire:	WARNING FLAMMABLE! Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Special protective equipment for fire-fighters:	Wear protective equipment. Wear self-contained breathing apparatus.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	•3YE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective equipment. Avoid contact with skin and eyes. Danger of slipping on spilled product. Keep unprotected persons away.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE
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| Precautions for safe handling: | <ul style="list-style-type: none">Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition.Switch off electrical devices. Do not smoke, do not weld.Avoid open flames and sources of ignition.Use only in well-ventilated areas.Take measures to prevent the build-up of electrostatic charges.Do not inhale vapors and fumes.Avoid skin and eye contact.Gloves and safety glasses should be worn |
| Conditions for safe storage: | <ul style="list-style-type: none">Ensure good ventilation/extraction.Storage at 5 to 25°C is recommended.Keep container in a well ventilated place.Ensure good ventilation/extraction.Store in a cool, dry place.Keep container in a well ventilated place.Take precautionary measures against static discharges during storage and transport.Storage at 5 to 25°C is recommended.Must be stored in the facility for the dangerous goods.Refer to AS 1940: The Storage and Handling of Flammable and Combustible Liquids.Store away from incompatible materials. |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
2-Butanone; Methyl ethylketone; MEK 78-93-3		150	445	-	-	-
2-Butanone; Methyl ethylketone; MEK		-	-	-	300	890
ETHYL ACETATE 141-78-6		200	720	-	-	-
n-Butyl acetate 123-86-4		50	238	-	-	-
n-Butyl acetate		-	-	-	150	713
Isocyanates, all (as -NCO) 9017-01-0	Inhalable fraction and vapor.		0.02	-	-	-
Isocyanates, all (as -NCO)	Inhalable fraction and vapor.	-	-	-	-	0.07
Isocyanates, all (as -NCO) 26006-20-2	Inhalable fraction and vapor.		0.02	-	-	-
Isocyanates, all (as -NCO)	Inhalable fraction and vapor.	-	-	-	-	0.07
Isocyanates, all (as -NCO) 4083-64-1	Inhalable fraction and vapor.		0.02	-	-	-
Isocyanates, all (as -NCO)	Inhalable fraction and vapor.	-	-	-	-	0.07
2-Butanone; Methyl ethylketone; MEK 78-93-3		150	445	-	-	-
2-Butanone; Methyl ethylketone; MEK		-	-	-	300	890
ETHYL ACETATE 141-78-6		200	720	-	-	-
CARBON BLACK 1333-86-4			3	-	-	-
n-Butyl acetate 123-86-4		50	238	-	-	-
n-Butyl acetate		-	-	-	150	713
Isocyanates, all (as -NCO) 4151-51-3	Inhalable fraction and vapor.	-	-	-	-	0.07
Isocyanates, all (as -NCO)	Inhalable fraction and vapor.		0.02	-	-	-
Isocyanates, all (as -NCO) 4083-64-1	Inhalable fraction and vapor.		0.02	-	-	-
Isocyanates, all (as -NCO)	Inhalable fraction and vapor.	-	-	-	-	0.07

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Butanone	methyl ethyl	Urine	Sampling time: End of	2 mg/l	NZ BEI		

78-93-3 [Methyl ethyl ketone (MEK)]	ketone		shift.				
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Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Butanone 78-93-3 [2-Butanone; Methyl ethyl ketone]	2-butanone	Urine	Sampling time: End of shift.	2 mg/l	DE BGW		

- Engineering controls:** Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
- Eye protection:** Goggles which can be tightly sealed.
- Skin protection:** Protective clothing that covers arms and legs.
Use of Butyl or Nitrile Rubber gloves is recommended.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
- Respiratory protection:** If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Black
Liquid
- Odor:** Solvent
- pH:** Not applicable, Product reacts with water.
- Melting point / freezing point:** Not applicable, Product is a liquid
- Specific gravity:** 0.9800
- Boiling point:** 80 °C (176 °F)
- Flash point:** -2.5 °C (27.5 °F)
(DIN EN ISO 1523:2002; flash point - procedure of equilibrium)
- Lower explosive limit:** 0.82 %(V)
- Vapor pressure:** 470 mbar
(no method / method unknown; 94 hPa
55 °C (131 °F); 20 °C (68 °F); 50 °C (122 °F)) 360 hPa
- Vapor density:** Not available.
- Density:** 0.95 - 0.99 g/ml
- Solubility in water:** Partially miscible (20 °C)
- Viscosity (dynamic):** 3 - 14 mPa.s; 23.0 °C (73.4 °F); Method: ;; Viscosity Physica; HT-Method)
- VOC content (2010/75/EC)** 61.3 % (VOCV 814.018 VOC regulation CH)

SECTION 10. STABILITY AND REACTIVITY

- Stability:** Stable under normal conditions of temperature and pressure.
- Conditions to avoid:** Heat, flames, sparks and other sources of ignition.
Humidity

Incompatible materials:	Reaction with water, formation of CO ₂ Acids and bases. Amines. Oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Oxides of carbon. Oxides of nitrogen. Irritating and toxic gases or fumes may be released during a fire.
Hazardous polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion:

May cause gastrointestinal tract irritation if swallowed.

Skin:

May cause irritation due to defatting of the skin.

Eyes:

Causes serious eye irritation.

Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation:

Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.

Exposure to diisocyanates may cause the following human health effects: Skin irritation and allergic reactions, respiratory irritation, respiratory sensitization and lung toxicity; some diisocyanates also may cause cancer. The likelihood that these effects will occur depends on a number of factors; among them the level of exposure, frequency of exposure, part of body exposed and sensitivity of the exposed individual.

Harmful by inhalation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butanone 78-93-3	LD50 LC50 LD50	2,193 mg/kg 34.5 mg/l > 6,400 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 423 (Acute Oral toxicity) not specified not specified
Ethyl acetate 141-78-6	LD50 LC50 LC50 LD50	6,100 mg/kg 57.7 mg/l > 22.5 mg/l > 20,000 mg/kg	oral inhalation inhalation dermal	4 h 6 h	rat rat rat rabbit	not specified not specified other guideline: Draize Test
Carbon black - Nano 1333-86-4	LD50 LC50	> 8,000 mg/kg > 0.0046 mg/l	oral inhalation	4 h	rat rat	OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
n-butyl acetate 123-86-4	LD50 LC50 LD50	10,760 mg/kg > 23.4 mg/l > 14,112 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	LD50 Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE)	> 675 mg/kg 676 mg/kg > 5.721 mg/l 5.7211 mg/l	oral oral inhalation inhalation	4 h	rat rat	OECD Guideline 423 (Acute Oral toxicity) Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement
4-isocyanatosulphonyltoluene 4083-64-1	LD50 LD50	2,330 mg/kg > 2,000 mg/kg	oral dermal		rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Butanone 78-93-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Ethyl acetate 141-78-6	slightly irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Carbon black - Nano 1333-86-4	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
n-butyl acetate 123-86-4	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Butanone 78-93-3	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethyl acetate 141-78-6	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Carbon black - Nano 1333-86-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
n-butyl acetate 123-86-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Butanone 78-93-3	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Ethyl acetate 141-78-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Carbon black - Nano 1333-86-4	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
n-butyl acetate 123-86-4	not sensitising	Guinea pig maximisation test	guinea pig	not specified
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Butanone 78-93-3	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without not applicable with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butanone 78-93-3	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Ethyl acetate 141-78-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethyl acetate 141-78-6	negative	oral: gavage		hamster, Chinese	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Carbon black - Nano 1333-86-4	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)
Carbon black - Nano 1333-86-4	negative	inhalation		rat	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
n-butyl acetate 123-86-4	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
n-butyl acetate 123-86-4	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
4- isocyanatosulphonyltolue ne 4083-64-1	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		not specified not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Butanone 78-93-3	NOAEL=2500 ppm	inhalation	90 days 6 hours/day, 5 days/week	rat	not specified
Butanone 78-93-3	LOAEL=5000 ppm	inhalation	90 days 6 hours/day, 5 days/week	rat	not specified
Ethyl acetate 141-78-6	NOAEL=900 mg/kg	oral: gavage	90 ddaily	rat	EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Carbon black - Nano 1333-86-4	NOAEL=> 1,000 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Carbon black - Nano 1333-86-4	NOAEL=1 mg/m ³	inhalation	13 w 6 h/d, 5 d/w	rat	not specified
n-butyl acetate 123-86-4	NOAEL=125 mg/kg	oral: gavage	6 (interim sacrifice) or 13 wdaily	rat	EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)

SECTION 12.

ECOLOGICAL INFORMATION

General ecological information:

Do not empty into drains / surface water / ground water.

Ecotoxicity: H402 Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Butanone 78-93-3	LC50	3,220 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butanone 78-93-3	EC50	5,091 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butanone 78-93-3	EC50	1,240 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC10	1,010 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC50	1,150 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Ethyl acetate 141-78-6	LC50	220 mg/l	Fish	96 h	Pimephales promelas	other guideline:
Ethyl acetate 141-78-6	EC50	164 mg/l	Daphnia	48 h	Daphnia cucullata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl acetate 141-78-6	EC50	> 2,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	NOEC	2,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	EC10	2,900 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Carbon black - Nano 1333-86-4	LC50	Toxicity > Water solubility	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Carbon black - Nano 1333-86-4	EC50	Toxicity > Water solubility	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Carbon black - Nano 1333-86-4	EC50	Toxicity > Water solubility	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black - Nano 1333-86-4	EC10	Toxicity > Water solubility	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black - Nano 1333-86-4	EC0	Toxicity > Water solubility	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
n-butyl acetate 123-86-4	LC50	18 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-butyl acetate 123-86-4	EC50	44 mg/l	Daphnia	48 h	Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
n-butyl acetate 123-86-4	EC50	674.7 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
n-butyl acetate 123-86-4	EC10	295.5 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	OECD Guideline 201 (Alga, Growth

n-butyl acetate 123-86-4	IC50	356 mg/l	Bacteria	40 h	subspicatus) Ciliate (Tetrahymena pyriformis)	Inhibition Test) other guideline:
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	LC50	Toxicity > Water solubility	Fish		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	EC50	Toxicity > Water solubility	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	NOEC	Toxicity > Water solubility	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	LC50	> 45 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	30 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC10	23 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-isocyanatosulphonyltoluene 4083-64-1	EC50	2,511 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Butanone 78-93-3	readily biodegradable	aerobic	98 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Ethyl acetate 141-78-6	readily biodegradable	aerobic	100 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
n-butyl acetate 123-86-4	readily biodegradable	aerobic	83 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3		aerobic	58.2 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
4-isocyanatosulphonyltoluene 4083-64-1	readily biodegradable	aerobic	83 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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Butanone 78-93-3	0.3				40 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Ethyl acetate 141-78-6		30	3 d	Leuciscus idus melanotus	22.5 °C	other guideline:
Ethyl acetate 141-78-6	0.68				25 °C	EPA OPPTS 830.7560 (Partition Coefficient, n-octanol / H2O, Generator Column Method)
n-butyl acetate 123-86-4	2.3				25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Phenol, 4-isocyanato-, phosphorothioat 4151-51-3	8.27					not specified
4-isocyanatosulphonyltoluene 4083-64-1	0.6				30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Land Transport:

UN no.: 1139
 Proper shipping name: COATING SOLUTION
 Class or division: 3
 Packing group: II
 Hazchem code: •3YE

Marine transport IMDG:

UN no.: 1139
 Proper shipping name: COATING SOLUTION
 Class or division: 3
 Packing group: II
 EmS: F-E ,S-E
 Seawater pollutant: -

Air transport IATA:

UN no.: 1139
 Proper shipping name: Coating solution
 Class or division: 3
 Packing group: II
 Packing instructions (passenger): 353
 Packing instructions (cargo): 364

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002662
NZIoC: Compliant for NZIoC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: CAS: Chemical Abstracts Service
GHS: Globally Harmonized System
HSNO: Hazardous Substances and New Organisms
IATA : International Air Transport Association – Dangerous Goods Regulations
IMDG: International Maritime Dangerous Goods code
LC 50: Lethal Concentration 50%
LD 50: Lethal Dose 50%
STEL - Short term exposure limit
TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1-16

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