



SAFETY DATA SHEET

TOTALLY DEFEND – PART B HARDENER

Infosafe No.: LQ9LU
ISSUED Date : 08/08/2019
ISSUED by: WORX PLUS UNIT TRUST

1. IDENTIFICATION

GHS Product Identifier

TOTALLY DEFEND – PART B HARDENER

Company Name

WORX PLUS UNIT TRUST (ABN 19 445 818 014)

Address

5/176 Canterbury Rd Bayswater Nth
VIC Australia

Telephone/Fax Number

Tel: 1300 897 873

Emergency phone number

131 126

Recommended use of the chemical and restrictions on use

Raw material for industrial use.

Disclaimer

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Worx Plus Unit Trust, makes no representations as to the completeness or accuracy thereof. Information is supplied on the conditions that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Worx Plus Unit Trust or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Acute Toxicity - Dermal: Category 4

Acute Toxicity - Inhalation: Category 4

Sensitization - Skin: Category 1

Signal Word (s)

WARNING

Hazard Statement (s)

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

Pictogram (s)

Exclamation mark

**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary statement – Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Isocyanate prepolymer		>60-75 %
2-Butoxyethanol acetate	112-07-2	>25-40 %
Hexamethylene diisocyanate	822-06-0	0-<0.12 %
Ingredients determined not to be hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop, seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray or fog, foam, sand, dry chemical powder.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, isocyanates, minor amounts of hydrogen cyanide, oxides of nitrogen and other pyrolysis products typical of burning organic material.

Specific Hazards Arising From The Chemical

This product is non-combustible. Not considered a significant fire risk, however containers may burn.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Remove all ignition sources. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

Recommended Materials

Metal can or drum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Isocyanate compounds

TWA: 0.02 mg/m³

STEL: 0.07 mg/m³

Notices: Sen

2-Butoxyethanol acetate

TWA: 20 ppm, 133 mg/m³

STEL: 50 ppm, 333 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sen' Notice: The substance may cause sensitization by skin contact or by inhalation.

Biological Limit Values

Name: 1, 6-Hexamethylene diisocyanate

Determinant: 1, 6-Hexamethylene diamine in urine*

Value: 15 µg/g creatinine

Sampling time: End of shift

Notation: Ns

Source: American Conference of Industrial Hygienists (ACGIH)

Appropriate Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear liquid
Odour	Slight	Decomposition Temperature	Not available
Melting Point	Not available	Boiling Point	>100°C
Solubility in Water	Miscible	Specific Gravity	1.04
pH	Not available	Vapour Pressure	>2.3 kPa
Vapour Density (Air=1)	>1	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Not available
Volatile Component	<300 g/L	Partition Coefficient: n-octanol/water	Not available
Flash Point	Not applicable	Flammability	Non-combustible liquid
Auto-Ignition Temperature	Not applicable	Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Avoid contact with foodstuffs, Extremes of temperature and ignition sources.

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, isocyanates, minor amounts of hydrogen cyanide, oxides of nitrogen and other pyrolysis products typical of burning organic material.

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material. Data for ingredients is given below.

Acute Toxicity - Oral

2-Butoxyethanol acetate

LD50 (rat) : 1600 mg/kg

Hexamethylene diisocyanate

LD50 (rat) : 738 mg/kg

Acute Toxicity - Inhalation

Hexamethylene diisocyanate

LC50 (rat): 0.06 mg/l/4h

Acute Toxicity - Dermal

2-Butoxyethanol acetate

LD50 (rabbit) LD50: 1500 mg/kg

Hexamethylene diisocyanate

LD50 (rabbit): 570 mg/kg

Ingestion

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

Skin

Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. May be irritating to skin. The symptoms may include redness, itching and swelling. May cause an allergic skin reaction.

2-Butoxyethanol acetate

Skin (rabbit): 500 mg - mild

Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

2-Butoxyethanol acetate

Eye (rabbit): 500 mg/24hr - mild

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data available for this material. Data for ingredients is given below.

Persistence and degradability

2-Butoxyethanol acetate

Water/Soil/Air - Persistence: Low

Hexamethylene diisocyanate

Water/Soil/Air - Persistence: Low

Mobility

2-Butoxyethanol acetate

Mobility in soil: Low (KOC = 10)

Hexamethylene diisocyanate

Mobility in soil: Low (KOC = 5864)

Bioaccumulative Potential

2-Butoxyethanol acetate

Bioaccumulative potential: Low (BCF = 3.2)

Hexamethylene diisocyanate

Bioaccumulative potential: Low (LogKOW = 3.1956)

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish

Hexamethylene diisocyanate

LC50 (Fish): 22mg/L/96h

Acute Toxicity - Daphnia

2-Butoxyethanol acetate

EC50 (Crustacea): 37mg/L/96h

Hexamethylene diisocyanate

EC0 (Crustacea): <0.33mg/L/24h

Acute Toxicity - Algae

2-Butoxyethanol acetate

EC50 (Algae or other aquatic plants): >500mg/L/72h

Hexamethylene diisocyanate

EC50 (Algae or other aquatic plants): >77.4mg/L/72h

NOEC (Algae or other aquatic plants): 11.7mg/L/72h

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S6

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS created: August 2019

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

Contact Person/Point

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END OF SDS

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