SAFETY DATA SHEET

TOTALLY REPAIR REDI-FIX

Infosafe No.: LQBHJ
ISSUED Date: 23/11/2022
ISSUED by: WORX PLUS PTY LTD

SECTION 1 – IDENTIFICATION

GHS Product Identifier
TOTALLY REPAIR REDI-FIX

Company Name
WORX PLUS PTY LTD (ABN 36 664 352 229)

Address
56 Jersey Road, Bayswater
VIC 3153 Australia

Telephone/Fax Number
Tel: 1300 897 873

Emergency phone number
131 126

Recommended use of the chemical and restrictions on use
Chemical anchoring application & concrete patching/repair

Other Information
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 Pty Ltd, 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 Pty Ltd 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.

SECTION 2 – HAZARD(S) 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)
Eye damage/irritation: Category 2A
Sensitisation - skin: Category 1

Signal Word (s)
WARNING

Hazard Statement (s)
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Pictogram (s)
Exclamation mark

Precautionary Statement - Prevention
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
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
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
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.

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

SECTION 3 — COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients

NAME	CAS	PROPORTION
Ethyl styrene	28106-30-1	1-10%
dibenzoyl peroxide	94-36-0	1-3%
N,N-dimethyl-p-toluidine	99-97-8	<1%
Ingredients determined not to be hazardous		Balance

SECTION 4 — FIRST AID MEASURES

Inhalation
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist 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
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. Seek medical attention.

First Aid Facilities
Eyewash, safety shower and normal wash room 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.

SECTION 5 — FIREFIGHTING MEASURES

Suitable Extinguishing Media
Foam, dry chemical powder or carbon dioxide.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen and other pyrolysis products typical of burning organic material.

Specific hazards arising from the chemical
This product will burn if exposed to fire. Heating can cause expansion or decomposition leading to violent rupture of containers.

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. 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.

SECTION 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. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene by 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 away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents, acids, acid chlorides, acid an hydrides and chloroformates. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.
For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

SECTION 8 — EXPOSURE CONTROLS AND 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:

Dibenzoyl peroxide
TWA: 5 mg/m^3
Note: Sen

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

'Sen' Notice: The substance may cause sensitization by skin contact or by inhalation.
Source: Safe Work Australia

Biological Monitoring
No biological limits allocated.

Control Banding
Not available

Engineering Controls
This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Respiratory Protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust 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 and Face 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 such as PVC. 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.

Thermal Hazards
No further relevant information available.

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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES	DESCRIPTION	PROPERTIES	DESCRIPTION
Form	Paste	**Appearance**	Non slump paste
Colour	Various colours	**Odour**	Characteristic
Melting/Freezing Point	Not available	**Boiling Point**	Not available
Decomposition Temperature	Not available	**Solubility in Water**	Insoluble
Specific Gravity	Not available	**pH**	Not available
Vapour Pressure	Not available	**Relative Vapour Density (Air=1)**	Not available
Evaporation Rate	Not available	**Odour Threshold**	Not available
Volatile Component	VOC: 0.66 g/L	**Pour Point**	Not available
Partition Coefficient: n-octanol/water (log value)	Not available	**Density**	Not available
Flash Point	Not available	**Flammability**	Combustible
Auto-Ignition Temperature	Not available	**Flammable Limits - Upper**	Not available
Explosion Limit - Lower	Not available	**Relative Density**	1.61
Particle Characteristics	Not available		

SECTION 10 – STABILITY AND REACTIVITY

Reactivity
Reacts with incompatible materials.

Chemical Stability
Stable under normal conditions of storage and handling.

Possibility of hazardous reactions
Reacts with incompatible materials.

Conditions to Avoid
Heat, open flames and other sources of ignition.

Incompatible Materials
Avoid oxidising agents, acids, acid chlorides, acid an hydrides and chloroformates.

Hazardous Decomposition Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen and other pyrolysis products typical of burning organic material.

Hazardous Polymerization
Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicology Information
No toxicity data available for this material. The available acute toxicity data for the ingredient/s is/are given below.

Acute Toxicity - Oral
dibenzoyl peroxide
LD50 (rat): > 950 mg/kg

N,N-dimethyl-p-toluidine
LD50 (rat): 1650 mg/kg

Acute Toxicity - Inhalation
N,N-dimethyl-p-toluidine
LC50 (rat): > 1.4 mg/l/4H

Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
Inhalation of dusts/vapors may irritate the respiratory system.

Skin
May be irritating to skin. The symptoms may include redness, itching and swelling. May cause an allergic skin reaction. Open cuts, abraded or irritated skin should not be exposed to this material

Skin Corrosion/Irritation
Dibenzoyl peroxide

Skin effects (MAK): very weak

Eye
Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Serious Eye Damage/Irritation
Dibenzoyl peroxide
Eye (rabbit): 500 mg/24h - 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.

N,N-dimethyl-p-toluidine is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Dibenzoyl peroxide is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

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.

Chronic Effects
Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Most arylamines are very toxic to the blood cell-forming system, and they produce methaemoglobinaemia in humans. High doses congest the spleen and then cause formation of sarcomas (a type of malignant tumour).

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity
No ecological data available for this material. The available ecological data for the ingredients is given below:

Persistence and degradability
Dibenzoyl peroxide
Persistence in Water/Soil: LOW (Half-life= 14 days)
Persistence in Air: LOW (Half-life= 21.25 days)

N,N-dimethyl-p-toluidine
Persistence in Water/Soil: HIGH
Persistence in Air: HIGH

Mobility
Dibenzoyl peroxide
LOW (KOC= 771)

N,N-dimethyl-p-toluidine
LOW (KOC= 124.8)

Bioaccumulative Potential
Ethylstyrene
MEDIUM (BCF = 619)

Dibenzoyl peroxide
LOW (LogKOW = 3.46)

N,N-dimethyl-p-toluidine
LOW (LogKOW = 2.81)

Other Adverse Effects
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish
Dibenzoyl peroxide
LC50 (fish): 0.0602 mg/L/96hr

N,N-dimethyl-p-toluidine
LC50 (fish): 46 mg/L/96hr

Acute Toxicity - Algae
Dibenzoyl peroxide
EC50 (Algae or other aquatic plants): 0.0422 mg/L/72hr

N,N-dimethyl-p-toluidine
EC50 (Algae or other aquatic plants): 22mg/L/72hr

Acute Toxicity - Other Organisms
Dibenzoyl peroxide
EC50 (Crustacea): 0.11 mg/L/48hr

N,N-dimethyl-p-toluidine
EC50 (Crustacea): 13.7 mg/L/48hr

Chronic Toxicity - Algae
Dibenzoyl peroxide
NOEC (Algae or other aquatic plants): 0.02 mg/L/72hr

Hazardous to the Ozone Layer
This product is not expected to deplete the ozone layer.

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Considerations
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

SECTION 14 — TRANSPORT INFORMATION

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

Marine Transport (IMO/IMDG):
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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

ADG U.N. Number
None Allocated

ADG Proper Shipping Name
None Allocated

ADG Transport Hazard Class
None Allocated

Special Precautions for User
Not available

IMDG Marine pollutant
No

Transport in Bulk
Not available

SECTION 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.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

Montreal Protocol
Not listed

Stockholm Convention
Not listed

Rotterdam Convention
Not listed

International Convention for the Prevention of Pollution from Ships (MARPOL)
Not available

Agricultural and Veterinary Chemicals Act 1994
Not available

Basel Convention
Not available

SECTION 16 — ANY OTHER RELEVANT INFORMATION

Date of Preparation
SDS Created: November 2022

Version Number
1.0

Literature 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.
Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Code of Practice for Supply Diversion into Illicit Drug Manufacture.
National Code of Practice for Chemicals of Security Concern.
Agricultural Compounds and Veterinary Chemicals Act.
International Agency for Research on Cancer (IARC) Monographs.
Montreal Protocol on Substances that Deplete the Ozone Layer.
Stockholm Convention on Persistent Organic Pollutants (POPs).
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.
International Air Transport Association (IATA) Dangerous Goods Regulations.
International Maritime Dangerous Goods (IMDG) Code.
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 (7th revised edition).
Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

Contact Person/Point

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END OF SDS