

SAFETY DATA SHEET

MasterStrength 4000 PART A (formerly MasterBrace 4000)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.02.2023	000000516610	Date of first issue: 17.02.2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MasterStrength 4000 PART A (formerly MasterBrace 4000)

Product code : 000000000050699683

Manufacturer or supplier's details

Company : MB Solutions Australia Pty Ltd

Address : 11 Stanton Road, Seven Hills
NSW 2147

Telephone : +611300227300

Emergency telephone : ChemTel: +1-813-248-0585; Australia: 1-300-954-583

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2



Serious eye damage/eye irritation : Category 2A

Skin sensitization : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

:

Prevention:

P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Disposal:

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

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : epoxy resin

Components

Chemical name	CAS-No.	Concentration (% w/w)
Alkyl (C12-C14) glycidyl ether	68609-97-2	>= 7 -< 10
Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)	25068-38-6	>= 25 -< 50

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety.
Immediately remove contaminated clothing.

If inhaled : If difficulties occur after vapour/aerosol has been inhaled,
remove to fresh air and seek medical attention.

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|---|---|
| In case of skin contact | : After contact with skin, wash immediately with plenty of water and soap.
Under no circumstances should organic solvent be used.
If irritation develops, seek medical attention. |
| In case of eye contact | : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. |
| If swallowed | : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
Do NOT induce vomiting. |
| Most important symptoms and effects, both acute and delayed | : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation. |
| Notes to physician | : Treat symptomatically. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | : Foam
Water spray
Dry powder
Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : water jet |
| Hazardous combustion products | : harmful vapours
nitrogen oxides
fumes/smoke
carbon black
carbon oxides |
| Specific extinguishing methods | : The degree of risk is governed by the burning substance and the fire conditions.
If exposed to fire, keep containers cool by spraying with water.
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
Contaminated extinguishing water must be disposed of in accordance with official regulations. |
| Special protective equipment for fire-fighters | : Wear a self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Do not breathe vapour/aerosol/spray mists.
Wear eye/face protection.
If exposed to high vapour concentration, leave area immediately.
Use personal protective clothing. |
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Handle in accordance with good building materials hygiene and safety practice.

- Environmental precautions : Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.
- Methods and materials for containment and cleaning up : Large spills should be collected mechanically (remove by pumping) for disposal.
Pick up with inert absorbent material (e.g. sand, earth etc.).
Correctly dispose of recovered product immediately.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Product is not explosive.
- Advice on safe handling : Avoid aerosol formation.
Avoid inhalation of mists/vapours.
Avoid skin contact.
No special measures necessary provided product is used correctly.
- Hygiene measures : When using, do not eat, drink or smoke.
Hands and/or face should be washed before breaks and at the end of the shift.
At the end of the shift the skin should be cleaned and skin-care agents applied.
Gloves must be inspected regularly and prior to each use.
Replace if necessary (e.g. pinhole leaks).
- Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
Protect from direct sunlight.
- Materials to avoid : Observe TRGS 509/510 storage rules.
- Recommended storage temperature : 5 - 35 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium carbonate	471-34-1	TWA	10 mg/m ³ (Calcium carbonate)	AU OEL
crystalline silica	14808-60-7	TWA (Respirable dust)	0,05 mg/m ³	AU OEL
Further information: Category 1A (Carc. 1A) Known to have car-				

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	cinogenic potential for humans			
		TWA (Respirable particulate matter)	0,025 mg/m ³ (Silica)	ACGIH

Personal protective equipment

Respiratory protection : Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection

Remarks : Chemical resistant protective gloves (EN 374) Manufacturer's directions for use should be observed because of great diversity of types. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
 Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness fluoroelastomer (FKM) - 0.7 mm coating thickness
 Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) polyvinylchloride (PVC) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Protective measures : Do not inhale gases/vapours/aerosols.
 Avoid contact with the skin, eyes and clothing.
 Avoid exposure - obtain special instructions before use.
 Handle in accordance with good building materials hygiene and safety practice.
 Wearing of closed work clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: paste
Color	: beige
Odor	: characteristic
Odor Threshold	: not determined
pH	: Not applicable
Melting point/freezing point	: No data available
Boiling point	: > 220 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: not flammable
Self-ignition	: not self-igniting
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1,37 - 1,4 g/cm ³ (20 °C)
Bulk density	: 1.300 - 1.400 kg/m ³ (20 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: not applicable for mixtures
Autoignition temperature	: No data available
Decomposition temperature	: No decomposition if stored and handled as prescribed/indicated.

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Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive Not explosive
Oxidizing properties	: not fire-propagating
Self-heating substances	: It is not a substance capable of spontaneous heating.
Metal corrosion rate	: No corrosive effect on metal.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	: The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	: The product is stable if stored and handled as prescribed/indicated.
Conditions to avoid	: See SDS section 7 - Handling and storage.
Incompatible materials	: Strong acids Strong bases Strong oxidizing agents Strong reducing agents
Hazardous decomposition products	: No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability**Product:**

Biodegradability : Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

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Stability in water : Remarks: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Because of the product's consistency and low water solubility, bioavailability is improbable.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Other adverse effects**Product:**

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class	: 9
Subsidiary risk	: EHSM
Packing group	: III

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Labels : Miscellaneous Dangerous Goods, Environmentally hazardous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class : 9
Subsidiary risk : EHSM
Packing group : III
Labels : 9 (EHSM)
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

ASIA ROAD

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)
Class : 9
Subsidiary risk : EHSM
Packing group : III
Labels : 9 (EHSM)
Hazchem Code : •3Z

SECTION 15. REGULATORY INFORMATION

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

The ingredients of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory, Low volume exemption

SECTION 16. OTHER INFORMATION

Revision Date : 17.02.2023
Date format : dd.mm.yyyy

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average
AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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