

MasterBrace 6000UW

Version Revision Date: SDS Number: Date of last issue: 10/01/2020
1.1 08/02/2021 000000260117 Date of first issue: 10/01/2020

SECTION 1. IDENTIFICATION

Product name : MasterBrace 6000UW
Product code : 000000000051657551 000000000051657551
Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : MBSCS Canada, Inc.
Address : 7111 Syntex Drive, 3rd Floor
 Mississauga ON L5N 8C3
Emergency telephone : ChemTel: +1-813-248-0585;
National Emergency Tele- : USA: +1-800-255-3924 ChemTel contract no. MIS9240420
phone Number

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 in accordance with the Hazardous Products Regulations**

Skin corrosion/irritation : Category 2
Serious eye damage/eye : Category 2A
irritation
Skin sensitization : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity : Category 2
Short-term (acute) aquatic : Category 2
hazard
Long-term (chronic) aquatic : Category 2
hazard

GHS label elements

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Hazard pictograms

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Signal Word

:

Warning

Hazard Statements

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H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H341 Suspected of causing genetic defects.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

:

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273 Avoid release to the environment.
P202 Do not handle until all safety precautions have been read and understood.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

No data available.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

Components

| Chemical name | Common Name/Synonym | CAS-No. | Concentration (% w/w) |
|---|---|------------|-----------------------|
| Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700) | Phenol, 4,4'-(1-methylethylene)bis-, polymer with (chloromethyl)oxirane | 25068-38-6 | >= 75 - < 100 |
| butyl 2,3-epoxypropyl ether | Oxirane, (butoxymethyl)- | 2426-08-6 | >= 7 - < 10 |
| Titanium dioxide | Titanium oxide (TiO ₂) | 13463-67-7 | >= 1 - < 3 |
| 2,3-epoxypropyl o-tolyl ether | Oxirane, [(2-methylphenoxy)methyl]- | 2210-79-9 | >= 0.3 - < 1 |
| ethylbenzene | Benzene, ethyl- | 100-41-4 | >= 0.1 - < 0.2 |

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Show this material safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
 If on skin, rinse well with water.
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
 Keep respiratory tract clear.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
 Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.

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Suspected of causing genetic defects.
Suspected of causing cancer.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
-

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Product is not explosive.
- Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap-
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plication area.
 Dispose of rinse water in accordance with local and national regulations.
 Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.
- 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 °C
- Further information on storage stability : Minimum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------|----------|-------------------------------|--|--------------------------------------|
| ethylbenzene | 100-41-4 | TWA value | 20 ppm | ACGIHTLV |
| | | STEL value | 125 ppm 545 mg/m3 | NIOSH |
| | | REL value | 100 ppm 435 mg/m3 | NIOSH |
| | | PEL | 100 ppm 435 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | TWA value | 100 ppm 435 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | STEL value | 125 ppm 545 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA | 100 ppm 434 mg/m3 | CA AB OEL |
| | | STEL | 125 ppm 543 mg/m3 | CA AB OEL |
| | | TWA | 20 ppm | CA BC OEL |
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| | | TWAEV | 20 ppm | CA QC OEL |
| | | TWA | 20 ppm | ACGIH |
| butyl 2,3-epoxypropyl ether | 2426-08-6 | TWA value | 3 ppm | ACGIHTLV |
| | | Ceil_Time | 5.6 ppm 30 mg/m3 | NIOSH |
| | | PEL | 50 ppm 270 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | TWA value | 25 ppm 135 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA | 3 ppm 16 mg/m3 | CA AB OEL |
| | | TWA | 3 ppm | CA BC OEL |
| | | TWAEV | 3 ppm | CA QC OEL |
| | | TWA | 3 ppm | ACGIH |
| Titanium dioxide | 13463-67-7 | TWA | 10 mg/m3 | CA AB OEL |
| | | TWA (Total dust) | 10 mg/m3 | CA BC OEL |
| | | TWA (respirable dust fraction) | 3 mg/m3 | CA BC OEL |
| | | TWAEV (total dust) | 10 mg/m3 | CA QC OEL |
| | | TWA | 10 mg/m3 (Titanium dioxide) | ACGIH |

Engineering measures : No applicable information available.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.
Use NIOSH approved respiratory protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.

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Wearing of closed work clothing is recommended.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber

Odor : mild, of glycol

Odor Threshold : No data available

pH : insoluble

Melting point : No applicable information available.

Freezing point : No applicable information available.

Boiling point : approx. 350 °C

Flash point : 177 °C

Evaporation rate : not determined

Flammability (solid, gas) : not highly flammable
Method: derived from flash point

Vapor pressure : No applicable information available.

Relative vapor density : Heavier than air.

Relative density : approx. 1.14

Density : approx. 1.14 g/cm³ (20 °C)

Solubility(ies)

Water solubility : insoluble (20 °C)

Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No data available.

Autoignition temperature : No data available

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Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, dynamic : not determined

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive
Not explosive

Oxidizing properties : Based on its structural properties the product is not classified as oxidizing.

Sublimation point : No applicable information available.

Molecular weight : No data available

Metal corrosion rate : Corrosive effects to metal are not anticipated.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

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.

Product:

Remarks : May cause skin irritation and/or dermatitis.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : Causes sensitization.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Suspected of causing cancer.

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.

Product:

No aspiration hazard expected.

Further information**Product:**

Remarks : The product has not been tested. The statement has been derived from the properties of the individual components.

Remarks : No data available

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

Acute aquatic toxicity : Toxic to aquatic life.

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

Persistence and degradability

No data available

Bioaccumulative potential**Product:**

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

Components:**butyl 2,3-epoxypropyl ether:**

Partition coefficient: n-octanol/water : Remarks: No data available.

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with national, state and local regulations.
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

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Class : 9
 Subsidiary risk : EHSM
 Packing group : III
 Labels : 9 (EHSM)

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
 Labels : Miscellaneous, 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**TDG**

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**The ingredients of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

| | | |
|---|---|---|
| 29 CFR 1910.1000 (Table Z-1-A) | : | OSHA - Table Z-1-A (29 CFR 1910.1000) |
| 29 CFR 1910.1000 (Table Z-1) | : | OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000 |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIHTLV | : | American Conference of Governmental Industrial Hygienists - threshold limit values (US) |
| CA AB OEL | : | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| CA BC OEL | : | Canada. British Columbia OEL |
| CA QC OEL | : | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| NIOSH | : | NIOSH Pocket Guide to Chemical Hazards (US) |
| 29 CFR 1910.1000 (Table Z-1-A) / STEL value | : | Short Term Exposure Limit (STEL): |
| 29 CFR 1910.1000 (Table Z-1-A) / TWA value | : | Time Weighted Average (TWA): |
| 29 CFR 1910.1000 (Table Z-1) / PEL | : | Permissible exposure limit |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIHTLV / TWA value | : | Time Weighted Average (TWA): |
| CA AB OEL / TWA | : | 8-hour Occupational exposure limit |
| CA AB OEL / STEL | : | 15-minute occupational exposure limit |
| CA BC OEL / TWA | : | 8-hour time weighted average |
| CA QC OEL / TWAEV | : | Time-weighted average exposure value |
| NIOSH / Ceil_Time | : | Ceiling Limit Value and Time Period (if specified): |
| NIOSH / REL value | : | Recommended exposure limit (REL): |
| NIOSH / STEL value | : | Short Term Exposure Limit (STEL): |

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, Bioaccumu-

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lative 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

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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.

CA / EN