

MasterSeal TC 295 Clear PTB

Version Revision Date: SDS Number: Date of last issue: 08/26/2020
1.1 09/04/2020 000001000520 Date of first issue: 08/26/2020

SECTION 1. IDENTIFICATION

Product name : MasterSeal TC 295 Clear PTB
Product code : 000000000050722673 000000000050722673
Other means of identification : MSeal TC 295 Clear Part B

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;

Recommended use of the chemical and restrictions on use

Recommended use : Clear coating
 : 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**

Flammable liquids : Category 4
Acute toxicity (inhalation : Category 2
(dust/mist/fume))
Skin corrosion/irritation : Category 2
Serious eye damage/eye : Category 2A
irritation
Respiratory sensitization : Category 1
Skin sensitization : Category 1
Specific target organ toxicity : Category 3 (respiratory tract irritation)
- single exposure
Hazardous to the aquatic : Category 2
environment - acute hazard
Hazardous to the aquatic : Category 2
environment - chronic hazard

GHS label elements

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- Hazard pictograms : 
- Signal Word : Danger
- Hazard Statements : H227 Combustible liquid.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary Statements : **Prevention:**
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P260 Do not breathe mist or vapours.
P273 Avoid release to the environment.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P284 In case of inadequate ventilation wear respiratory protection.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash face, hands and any exposed skin thoroughly after handling.
- Response:**
P310 Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
- Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

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Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Solution based on:
 polymers
 Isocyanates

Components

Chemical name	CAS-No.	Concentration (% w/w)
HDI-oligomer (trimer)	28182-81-2	>= 15 - < 20
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	>= 7 - < 10
1,2,4-trimethylbenzene	95-63-6	>= 0 - < 15
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 0 - < 15
Trimethylbenzene	25551-13-7	>= 0 - < 7
mesitylene	108-67-8	>= 0 - < 3

SECTION 4. FIRST AID MEASURES

General advice : Remove contaminated clothing.

If inhaled : Remove the affected individual into fresh air and keep the person calm.
 Assist in breathing if necessary.
 Immediate medical attention required.

In case of skin contact : Wash affected areas thoroughly with soap and water.
 If irritation develops, seek medical attention.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 If easy to do, remove contact lens, if worn.
 Seek medical advice.

If swallowed : Rinse mouth and then drink 200-300 ml of water.
 Do NOT induce vomiting.
 Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
 Immediate medical attention required.

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Most important symptoms and effects, both acute and delayed : Eye irritation
Skin irritation
Allergic reactions
Health injuries may be delayed.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Dry powder
Carbon dioxide (CO₂)
Foam

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : nitrous gases
fumes/smoke
isocyanate
vapor

Further information : Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Clear area.
Ensure adequate ventilation.
Wear suitable personal protective clothing and equipment.

Environmental precautions : Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Dike spillage.
If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.
Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information).
Shovel into open container.
Spill area can be decontaminated with the following recommended decontamination solution:
Mixture of 90 % water, 5-8 % household ammonia, 2-5 % detergent.
Wash down spill area with decontamination solution.
Allow solution to stand for at least 10 minutes.
Pick up with suitable absorbent material.
Place into appropriately labeled waste containers.

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Do not make container pressure tight.
 Move container to a well-ventilated area (outside).
 Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.
 Dispose of absorbed material in accordance with regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No explosion proofing necessary.

Advice on safe handling : Provide suitable exhaust ventilation at the processing machines.
 Ensure thorough ventilation of stores and work areas.
 Avoid aerosol formation.
 When handling heated product, vapours of the product should be ventilated, and respiratory protection used.
 Wear respiratory protection when spraying.
 Danger of bursting when sealed gastight.
 Protect against moisture.
 If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2,4-trimethylbenzene	95-63-6	TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 125 mg/m3	NIOSH
		TWA value	25 ppm 125 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm 123 mg/m3	CA AB OEL
		TWAEV	25 ppm 123 mg/m3	CA QC OEL
		TWA	25 ppm	CA BC OEL
mesitylene	108-67-8	TWA	25 ppm	ACGIH
		TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 125 mg/m3	NIOSH
		TWA value	25 ppm 125 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm 123 mg/m3	CA AB OEL
		TWAEV	25 ppm 123 mg/m3	CA QC OEL

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		TWA	25 ppm	CA BC OEL
		TWA	25 ppm	ACGIH
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	TWA value	0.005 ppm	ACGIHTLV
		TWA	0.005 ppm 0.05 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA BC OEL
		C	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
		C	0.02 ppm	CA ON OEL
		TWAEV	0.005 ppm 0.045 mg/m3	CA QC OEL
		TWA	0.005 ppm	ACGIH
Trimethylbenzene	25551-13-7	TWA value	25 ppm	ACGIHTLV
		TWA value	25 ppm 125 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		REL value	25 ppm 125 mg/m3	NIOSH
		TWA	25 ppm 123 mg/m3	CA AB OEL
		TWAEV	25 ppm 123 mg/m3	CA QC OEL
		TWA	25 ppm	CA BC OEL
		TWA	25 ppm	ACGIH
solvent naphtha	64742-95-6	REL value	100 ppm 400 mg/m3	NIOSH
		PEL	100 ppm 400 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 400 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH

Engineering measures : Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.
 When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.
 For emergency or non-routine, high exposure situations, in-

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cluding confined space entry, use a NIOSH-certified full face-piece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection

Remarks : Chemical resistant protective gloves should be worn to prevent all skin contact. Suitable materials may include chloroprene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber depending upon conditions of use.

Eye protection : Tightly fitting safety goggles (chemical goggles).
Wear face shield if splashing hazard exists.

Skin and body protection : Chemical resistant protective boots
Cover as much of the exposed skin as possible to prevent all skin contact.
Suitable materials may include saran-coated material depending upon conditions of use.

Protective measures : Wear protective clothing as necessary to prevent contact.
Eye wash fountains and safety showers must be easily accessible.
Observe the appropriate PEL or TLV value.

Hygiene measures : Wash soiled clothing immediately.
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : clear

Odor : aromatic

Odor Threshold : not determined

pH : No applicable information available.

Melting point : No applicable information available.

Freezing point : No applicable information available.

Boiling point/boiling range : No applicable information available.

Flash point : 69.00 °C

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Evaporation rate : No applicable information available.

Self-ignition : not self-igniting

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : 1.0300 g/cm³ (20.00 °C)

Solubility(ies)

 Water solubility : not determined

 Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No applicable information available.

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

Viscosity

 Viscosity, dynamic : No applicable information available.

 Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : Not an oxidizer.

Sublimation point : No applicable information available.

Molecular weight : No applicable information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable information available.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

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Possibility of hazardous reactions : Reacts with water, with formation of carbon dioxide.
Risk of bursting.
Reacts with alcohols.
Reacts with acids.
Reacts with alkalis.
Reacts with amines.
Risk of exothermic reaction.
Risk of polymerization.
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

Conditions to avoid : Avoid moisture.

Incompatible materials : Acids
Amines
Alcohols
Water
Alkalines
Strong bases
Substances/products that react with isocyanates.

Hazardous decomposition products : nitrogen oxides
Aromatic isocyanates
gases/vapours

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Fatal if inhaled.

Product:

Acute inhalation toxicity : ATE: 0.12 mg/l
Remarks: Determined for mist

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

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

No data available

Bioaccumulative potential**Components:****3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:**

Partition coefficient: n-octanol/water : log Pow: approx. 4.75 (25 °C)
pH: 7
Method: other (calculated)
Remarks: Study scientifically not justified.

1,2,4-trimethylbenzene:

Partition coefficient: n-octanol/water : log Pow: 3.63 (25 °C)
Method: other (calculated)

Solvent naphtha (petroleum), light arom.:

Partition coefficient: n-octanol/water : log Pow: 3.17
Method: other (calculated)
GLP: no

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mesitylene:

Partition coefficient: n-octanol/water : log Pow: 3.42
Method: other (measured)

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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 : Incinerate or dispose of in a licensed facility.
Do not discharge substance/product into sewer system.

Contaminated packaging : Do not attempt to refill or clean containers since residue is difficult to remove.
Do not reuse empty containers.
Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill.
Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated.

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

UN number : UN 2810
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
(3-ISOCYANATOMETHYL-3.5.5-TRIMETHYLCYCLOHEXYL ISOCYANAT, TRIMETHYLBENZENE)

Class : 6.1
Packing group : II
Labels : 6.1

IATA-DGR

UN/ID No. : UN 2810
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
(3-ISOCYANATOMETHYL-3.5.5-TRIMETHYLCYCLOHEXYL ISOCYANAT, TRIMETHYLBENZENE)

Class : 6.1
Packing group : II

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Labels : Toxic
Packing instruction (cargo aircraft) : 662
Packing instruction (passenger aircraft) : 654

IMDG-Code

UN number : UN 2810
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
(3-ISOCYANATOMETHYL-3.5.5-TRIMETHYLCYCLOHEXYL ISOCYANAT, TRIMETHYLBENZENE)
Class : 6.1
Packing group : II
Labels : 6.1
EmS Code : F-A, S-A
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**

UN number : UN 2810
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
(3-ISOCYANATOMETHYL-3.5.5-TRIMETHYLCYCLOHEXYL ISOCYANAT, TRIMETHYLBENZENE)
Class : 6.1
Packing group : II
Labels : 6.1
ERG Code : 153
Marine pollutant : no

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:**

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.

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

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)

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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 ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
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) / 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 BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / C	:	ceiling limit
CA ON OEL / C	:	Ceiling Limit (C)
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
NIOSH / REL value	:	Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; 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; KECl - 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; TSCA - Toxic Substances Control Act (United States); UN - Unit-

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ed Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 09/04/2020

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