

**MasterSeal TC 295 gry PART A**

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.0                12/30/2020              000000468252        Date of first issue: 12/30/2020

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**SECTION 1. IDENTIFICATION**

Product name                                : MasterSeal TC 295 gry PART A  
Product code                                : 000000000050162456 000000000050162456

**Manufacturer or supplier's details**

Company name of supplier                : Master Builders-Construction Systems  
US, LLC  
Address                                        : 23700 CHAGRIN BLVD  
Beachwood OH 44122  
Emergency telephone                      : ChemTel: +1-813-248-0585

**Recommended use of the chemical and restrictions on use**

Recommended use                            : Product for construction chemicals  
Restrictions on use                         : Reserved for industrial and professional use.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids                            : Category 4  
Acute toxicity (Inhalation - vapour)       : Category 3  
Skin corrosion/irritation                  : Category 2  
Serious eye damage/eye irritation        : Category 2A  
Respiratory sensitization                  : Category 1  
Skin sensitization                          : Category 1  
Germ cell mutagenicity                     : Category 1B  
Carcinogenicity                             : Category 1B  
Reproductive toxicity                      : Category 1B  
Reproductive toxicity                      : Category 1B  
Specific target organ toxicity              : Category 3  
- single exposure  
Short-term (acute) aquatic hazard        : Category 2

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

Long-term (chronic) aquatic hazard : Category 2

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
 H319 Causes serious eye irritation.  
 H315 Causes skin irritation.  
 H331 Toxic 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.  
 H350 May cause cancer.  
 H340 May cause genetic defects.  
 H360 May damage fertility or the unborn child.  
 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.  
 P271 Use only outdoors or in a well-ventilated area.  
 P201 Obtain special instructions before use.  
 P260 Do not breathe dust or mist.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P202 Do not handle until all safety precautions have been read and understood.  
 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:**

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 water.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

P391 Collect spillage.  
 P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
 P311 Call a POISON CENTER or doctor/ physician.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
 P233 Keep container tightly closed.  
 P405 Store locked up.

**Disposal:**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : No data available.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
4,4'-methylenedicyclohexyl diisoncyanate	5124-30-1	>= 15 - < 20
Titanium dioxide	13463-67-7	>= 1 - < 3
aluminium oxide	1344-28-1	>= 1 - < 3
Hematite, chromium green black	68909-79-5	>= 1 - < 3
calcium oxide	1305-78-8	>= 1 - < 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	>= 0.3 - < 1
Solvent naphtha, petroleum, light aromatic	64742-95-6	>= 0.3 - < 1
Stoddard solvent	8052-41-3	>= 0.3 - < 1
dibutyltin dilaurate	77-58-7	>= 0.2 - < 0.3
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	>= 0.1 - < 0.3

**SECTION 4. FIRST AID MEASURES**

General advice : Remove contaminated clothing.

Move out of dangerous area.  
 Consult a physician.  
 Show this material safety data sheet to the doctor in attendance.  
 Symptoms of poisoning may appear several hours later.  
 Do not leave the victim unattended.

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

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

- Call a physician or poison control center immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash affected areas thoroughly with soap and water.  
If irritation develops, seek medical attention.
- If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.  
Immediate medical attention required.
- 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 : 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.
- 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.  
Toxic if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
May cause genetic defects.  
May cause cancer.  
May damage fertility or the unborn child.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Foam

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

- 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.
- 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.
- 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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
- Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Clear area.  
Ensure adequate ventilation.  
Wear suitable personal protective clothing and equipment.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.
- Environmental precautions : Do not discharge into drains/surface waters/groundwater.
- 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 : Dike spillage.
- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Product is not explosive.
- Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- 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.
- Avoid formation of aerosol.  
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 application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
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 : Prevent unauthorized access.  
no smoking  
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.

## MasterSeal TC 295 gry PART A

Version 1.0      Revision Date: 12/30/2020      SDS Number: 000000468252      Date of last issue: -  
 Date of first issue: 12/30/2020

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dibutyltin dilaurate	77-58-7	TWA value	0.1 mg/m3 (tin (Sn))	ACGIHTLV
		STEL value	0.2 mg/m3 (tin (Sn))	ACGIHTLV
		REL value	0.1 mg/m3 (tin (Sn))	NIOSH
		PEL	0.1 mg/m3 (tin (Sn))	29 CFR 1910.1000 (Table Z-1)
		TWA value	0.1 mg/m3 (tin (Sn))	29 CFR 1910.1000 (Table Z-1-A)
		TWA	0.1 mg/m3 (Tin)	OSHA Z-1
		TWA	0.1 mg/m3 (Tin)	ACGIH
		STEL	0.2 mg/m3 (Tin)	ACGIH
		TWA	0.1 mg/m3 (Tin)	OSHA P0
		TWA	0.1 mg/m3 (Tin)	NIOSH REL
calcium oxide	1305-78-8	TWA value	2 mg/m3	ACGIHTLV
		REL value	2 mg/m3	NIOSH
		PEL	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
aluminium oxide	1344-28-1	TWA value (Respirable fraction)	1 mg/m3	ACGIHTLV
		PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)

## MasterSeal TC 295 gry PART A

Version  
1.0Revision Date:  
12/30/2020SDS Number:  
000000468252Date of last issue: -  
Date of first issue: 12/30/2020

		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
4,4'-methylenedicyclohexyl diisoncyanate	5124-30-1	TWA value	0.005 ppm	ACGIHTLV
		Ceil_Time	0.01 ppm 0.11 mg/m3	NIOSH
		CLV	0.01 ppm 0.11 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	0.005 ppm	ACGIH
		C	0.01 ppm 0.11 mg/m3	NIOSH REL
		C	0.01 ppm 0.11 mg/m3	OSHA P0
Stoddard solvent	8052-41-3	TWA value	100 ppm	ACGIHTLV
		REL value	350 mg/m3	NIOSH
		Ceil_Time	1,800 mg/m3	NIOSH
		PEL	500 ppm 2,900 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 525 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	100 ppm	ACGIH
		TWA	350 mg/m3	NIOSH REL
		C	1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
Titanium dioxide	13463-67-7	TWA value	10 mg/m3	ACGIHTLV
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000



## MasterSeal TC 295 gry PART A

Version 1.0      Revision Date: 12/30/2020      SDS Number: 000000468252      Date of last issue: -  
 Date of first issue: 12/30/2020

				(Table Z-1-A)
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
Hematite, chromium green black	68909-79-5	REL value	0.5 mg/m3 (Chromium (Cr))	NIOSH
		PEL	1 mg/m3 (Chromium (Cr))	29 CFR 1910.1000 (Table Z-1)
		PEL	0.5 mg/m3 (Chromium (Cr))	29 CFR 1910.1000 (Table Z-1)
		TWA value	1 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Inhalable fraction)	0.003 mg/m3 (chromium(III))	ACGIHTLV
		REL value	0.5 mg/m3 (chromium(III))	NIOSH

**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.  
 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, including 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 fluoroelastomer (Viton) depending upon conditions of use.  
 The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

## MasterSeal TC 295 gry PART A

Version 1.0      Revision Date: 12/30/2020      SDS Number: 000000468252      Date of last issue: -  
Date of first issue: 12/30/2020

---

- Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : 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.  
Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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.  
Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : gray
- Odor : of chlorinated solvents
- pH : Not applicable
- Melting point : approx. 68 °F / 20 °C
- Boiling point : Not applicable
- Flash point : 154 °F / 68 °C  
Method: Flash Point by Tag Closed Tester.  
153 °F / 67 °C
- Evaporation rate : No applicable information available.
- Flammability (solid, gas) : not determined

## MasterSeal TC 295 gry PART A

Version      Revision Date:      SDS Number:      Date of last issue: -  
1.0          12/30/2020          000000468252      Date of first issue: 12/30/2020

---

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

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

Vapor pressure : 5.3 mmHg (68 °F / 20 °C)

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : 1.177 g/cm<sup>3</sup> (75 °F / 24 °C)  
9.81 lb/USg

Bulk density : Not applicable

Solubility(ies)  
Water solubility : hydrolyzes

Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : not determined

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 : Based on the chemical structure there is no indication of explosive properties.

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

Sublimation point : No applicable information available.

Molecular weight : 262.35 g/mol

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

No decomposition if stored and applied as directed.

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

Chemical stability	:	The product is stable if stored and handled as prescribed/indicated.  No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	The product is stable if stored and handled as prescribed/indicated. No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	See SDS section 7 - Handling and storage.  Heat, flames and sparks.
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.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Toxic if inhaled.

**Product:**

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : ATE: 2.57 mg/l  
Remarks: Determined for vapor

Acute dermal toxicity : Remarks: No applicable information available.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**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.

## MasterSeal TC 295 gry PART A

Version 1.0      Revision Date: 12/30/2020      SDS Number: 000000468252      Date of last issue: -  
Date of first issue: 12/30/2020

---

**Respiratory sensitization**

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

**Product:**

Remarks : Causes sensitization.

**Germ cell mutagenicity**

May cause genetic defects.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

May damage fertility or the unborn child.

**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 : No data available

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**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.

**Components:****dibutyltin dilaurate:**

M-Factor (Acute aquatic toxicity) : 1

**Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****Hematite, chromium green black:**

Partition coefficient: n-octanol/water : Remarks: The value has not been determined because the substance is inorganic.

**Solvent naphtha, petroleum, light aromatic:**

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

**Stoddard solvent:**

Partition coefficient: n-octanol/water : log Pow: 3.5 - 6.4 (68 °F / 20 °C)  
Method: Partition coefficient (n-octanol/water), HPLC method.

**dibutyltin dilaurate:**

Partition coefficient: n-octanol/water : log Pow: 3.17 (69.4 °F / 20.8 °C)  
pH: 6.1 - 6.3  
Method: Partition coefficient (n-octanol/water), Shake-flask method  
GLP: yes

**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.  
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with national, state and local regulations.  
Residues should be disposed of in the same manner as the substance/product.  
Do not discharge into drains/surface waters/groundwater.  
  
The product should not be allowed to enter drains, water

## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

---

courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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

Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

aluminium oxide 1344-28-1

4,4'-  
methylenedicy-  
clohexyl  
diisoncyanate 5124-30-1

Hematite, chro-  
mium green 68909-79-5  
black

**US State Regulations****Pennsylvania Right To Know**

calcium oxide

1305-78-8

**MasterSeal TC 295 gry PART A**

Version 1.0	Revision Date: 12/30/2020	SDS Number: 000000468252	Date of last issue: - Date of first issue: 12/30/2020
----------------	------------------------------	-----------------------------	--

aluminium oxide	1344-28-1
4,4'-methylenedicyclohexyl diisoncyanate	5124-30-1
Titanium dioxide	13463-67-7
Hematite, chromium green black	68909-79-5

**New Jersey Right To Know**

4-Chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	98-56-6
calcium oxide	1305-78-8
aluminium oxide	1344-28-1
4,4'-methylenedicyclohexyl diisoncyanate	5124-30-1
Titanium dioxide	13463-67-7
Hematite, chromium green black	68909-79-5

**California Prop. 65**

WARNING: This product can expose you to chemicals including Titanium dioxide, Quartz (SiO<sub>2</sub>), toluene, methanol, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

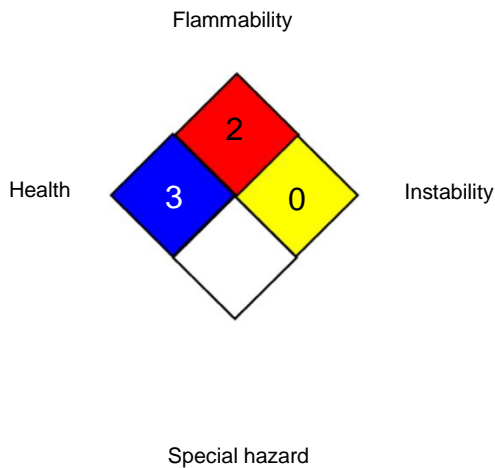
**The ingredients of this product are reported in the following inventories:**

TSCA : On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>		
<b>FLAMMABILITY</b>		
<b>PHYSICAL HAZARD</b>		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**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)



## MasterSeal TC 295 gry PART A

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12/30/2020	000000468252	Date of first issue: 12/30/2020

NIOSH	:	NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
29 CFR 1910.1000 (Table Z-1-A) / CLV	:	Ceiling Limit Value:
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
ACGIH / STEL	:	Short-term exposure limit
ACGIHTLV / STEL value	:	Short Term Exposure Limit (STEL):
ACGIHTLV / TWA value	:	Time Weighted Average (TWA):
NIOSH / Ceil_Time	:	Ceiling Limit Value and Time Period (if specified):
NIOSH / REL value	:	Recommended exposure limit (REL):
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations;

**MasterSeal TC 295 gry PART A**

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UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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