

# GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

## TEST REPORT

Report No.: WDX19031204EN-11  
Applicant: SINOPEC MAOMING BRANCH CHEMICAL  
DIVISION  
Address: ETHYLENE PLANT, QIJING TOWN,  
MAOGANG DISTRICT, MAOMING CITY  
Date: Apr. 03, 2019

Edited by: *Starr Lu.* Reviewed by: *phoebe Zhang* Approved by: *Andy zhu*

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# TEST REPORT

Report No.: WDX19031204EN-11

Date: Apr. 03, 2019

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**Applicant:** SINOPEC MAOMING BRANCH CHEMICAL DIVISION

**Address:** ETHYLENE PLANT, QIJING TOWN, MAOGANG DISTRICT, MAOMING CITY

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Polypropylene resin

**Brand:** PPH-T03

**Sample Received Date:** Mar. 30, 2019

**Completed Date:** Apr. 03, 2019

**Test Result(s):** Please refer to next page(s).

**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	The contents and format of this SDS are in accordance with Regulation(EC) No. 1907/2006 and Regulation(EC) No. 1272/2008.	DATA

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## 1 Identification of the substance/preparation and of the company/undertaking

### 1.1. Product identifier

Trade name:	Polypropylene resin
Proper shipping name:	None
Other identities:	No data available
Code:	PPH-T03

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

None information

#### 1.2.2. Uses advised against

Advise against other uses.

### 1.3. Details of the supplier of the safety data sheet

Supplier:	SINOPEC MAOMING BRANCH CHEMICAL DIVISION
Address:	ETHYLENE PLANT, QIJING TOWN, MAOGANG DISTRICT, MAOMING CITY
Telephone:	+86-0668-2237591
Fax:	+86-0668-2237157
E-mail:	zhouzhl.mmsh@sinopec.com

## 2 Hazards identification

### 2.1. Classification of the substance or mixture

Classification	Category	Exposure route
Flam. Sol.	2	-

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

No data available.

Other adverse physicochemical, human health and environmental effects

No reliable data available.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram:

No pictogram:

Signalword:	Warning
Hazard statements:	H228: Flammable Solid
Precautionary statements:	
Prevention:	P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
Response:	P370 + P378 In case of fire: Use ... for extinction.
Disposal:	Not applicable

### 2.3. Other hazards

No reliable data available

### 3 composition/information on ingredients

Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DSD
Polypropylene	9003 - 07 - 0	---	---	---	99.79	Flam. Sol. 2 H228	Not classified
Additive	---	---	---	---	0.21	Not classified	Not classified

### 4 First aid measures

**.After inhalation:** The material is not expected to present an inhalation hazard..

**.After skin contact:**Cool skin rapidly if contacted with molten polymer. Obtain medical attention for thermal burns..

**.After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**.After swallowing:** If symptoms persist consult doctor.

**.Ingestion:** No adverse health effects expected from ingestion..

**.After first aid, get appropriate in-plant , paramedic, or community medical support.**

## 5 Fire-fighting measures

**.General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Decomposes at high temperatures, resulting in toxic and corrosive products. Containers may explode when heated.

**.Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. Cool containers with flooding quantities of water until well after fire is out.

**.Flash Point:** Not available.

**.LEL:** Not Determined.

**.UEL:** Not Determined.

**.Special fire & explosion hazards:** Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion if fines accumulate. Wear standard fire fighting attire.

**.Exiting using media:** Dry Chemical, Carbon Dioxide, and Foam.

**.Unusual Fire or Explosion Hazards:** None.

## 6 Accidental release measures

**.Small Spill and Leak:** Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.

**.Large Spill and Leak:** Use a shovel to put the material into a convenient waste disposal container.

## 7 Handling and storage

### PROCEDURE FOR HANDLING

- The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.)
- It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns.
- Fumes or vapors emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin. Wear rubber or other impermeable gloves when cleaning contaminated areas.
- Avoid process temperatures above decomposition temperatures. Overheating may occur at excessively high cylinder heats, overworking of the melt by wrong screw configuration, or by long dwell time in the machine. Under such conditions, thermal emissions and heat-degradation products might, without proper ventilation, reach hazardous concentrations in the converting area. Hot purgings should be collected only as thin flat strands to allow for rapid cooling. Hot purgings should be cooled by quenching in water in a well-ventilated area.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.

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- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

#### RECOMMENDED STORAGE METHODS

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

#### STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

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## 8 Exposure controls/personal protection

### .Ventilation and Engineering controls:

No special ventilation and engineering controls are required for handling of these products.

### .Respiratory Protection:

No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHS Standard, applicable U.S. State regulations, or the Canadian CSA standard.

### .Body Protection:

No special protective clothing is required.

### .Protective Gloves:



Protective Gloves

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

### .Eye Protection:



Tightly sealed goggles

Chemical goggles or face shield.

## 9 Physical and chemical properties

### .General Information

Form: Solid

Color: White

Odor: Odorless

### .Change in condition

**Melting point/Meltingrange:** Notavailable

**Boiling point/Boiling range:** Notavailable

**Flash point:** Not applicable

**Self-igniting:** Product is not self-igniting

**Danger of explosion:** Product does not present an explosion hazard

**Density:** Notavailable

**Relative density:** Notavailable

**Vapor density:** Notavailable

**Evaporation rate:** Not Applicable

**Solubility in/Miscibility with Water:** Insoluble

**PH-Value:** Not available

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**.Viscosity:**

**Dynamic:** Not available

## 10 Stability and reactivity

**.Chemical Stability:** The product is stable.

**.Conditions to Avoid:** Dust generation.

**.Incompatibilities with Other Materials:** Incompatible or reactive with fluorine gas, oxidizing agents (nitric acid and perchloric acid), free halogens, benzene, petroleum ether, gasoline and lubricating oils, and aromatic and chlorinated hydrocarbons.

**.Hazardous Decomposition Products:** The following combustion products may be generated: carbon dioxide, carbon monoxide, water vapor, and trace volatile organic compounds.

**.Hazardous Polymerization:** Hazardous polymerization will not occur.

## 11 Toxicological information

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitisation:	No data available
Germ cell mutagenicity:	No data available
Reproductive toxicity:	No data available
Carcinogenicity:	No data available
Aspiration hazard:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available

## 12 Ecological information

### 12.1. Aquatic toxicity

Acute (short-term) toxicity:	No data available
Chronic (long-term) toxicity:	No data available

### 12.2. Persistence and degradability

Biodegradation:	No data available
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### 12.3. Bioaccumulative potential

Bioconcentration factor (BCF):	No data available
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### 12.4. Mobility in soil

Adsorption/Desorption:	No data available
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### 12.5. Results of PBT and vPvB assessment

No data available

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## 13 Disposal considerations

**Dispose of in accordance with all applicable regulation.**

### .Recommendation

Must not be dispose together with household garbage.

DO NOT dump into any sewers, on the ground, or into any body of water. Disposal of wastes and used containers must be in accordance with applicable federal, state and local regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**.U.S. EPA waste number:** Not applicable.

## 14 Transparent information

The product is not considered as dangerous goods and the UN recommendation on the transport of dangerous goods does not necessarily apply.

## 15 Regulatory information

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

### 15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - 67/548/EEC, 1999/45/EC, Regulation (EC) No 1272/2008, Regulation (EC) No 1907/2006, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

### 15.1.2. International/national regulations

UN recommendation on the transport of dangerous goods

## 16 Other information

### DISCLAIMER OF LIABILITY

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

# TEST REPORT

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Date: Apr. 03, 2019

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## Test Material List

Material No.	Description	Location
1	White plastic granules	Main body

## Photo of Sample:



\*\*\*End of Report\*\*\*

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## MSDS REPORT COVER

Reference No. : SZ2017040576-56E

Date : Apr. 26, 2017

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Client's name

SINOPEC MAOMING BRANCH CHEMICAL  
DIVISION

Client's address

ETHYLENE PLANT, QIJING TOWN, MAOGANG  
DISTRICT, MAOMING CITY, CHINA

Product Name:

High density polyethylene resin HHM5502LW

End Uses

/

Export to:

USA

Composition/Ingredient

Refer to MSDS content.

Job Receiving Date:

Apr.20, 2017

Preparation Period:

Apr.20, 2017~ Apr.26, 2017

### Service Requested

Material Safety Data Sheet for the Product

### SUMMARY

The contents and format of this MSDS are in accordance with 29 CFR 1910.1200(g) requirement.

\*\*\*\*\*

Issued by:



Kevin. Chen  
Lab Manager

STQ Testing Services Co., Ltd.

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Customer service: [CS@stq-cert.com](mailto:CS@stq-cert.com)

## Material Safety Data Sheet

### 1 Identification of the substance/preparation and of the company/undertaking

#### 1.1. Product identifier

Trade name:	High density polyethylene resin
Proper shipping name:	None
Other identities:	No data available
Code:	HHM5502LW

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

None information

##### 1.2.2. Uses advised against

Advise against other uses.

#### 1.3. Details of the supplier of the safety data sheet

Supplier:	SINOPEC MAOMING BRANCH CHEMICAL DIVISION
Address:	ETHYLENE PLANT, QIJING TOWN, MAOGANG DISTRICT, MAOMING CITY, CHINA
Telephone:	+86-0668-2237591
Fax:	+86-0668-2237157
E-mail:	zhouzhl.mmsh@sinopec.com

### 2 Hazards identification

Flammability:1

Toxicity:0

Body Contact: 2

Reactivity: 1

Chronic:2

SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4

#### EMERGENCY OVERVIEW

#### RISK

#### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

#### SWALLOWED

The material has NOT been classified as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality (death) rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, unintentional ingestion is not thought to be cause for concern

High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little

change / absorption. Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort.

#### EYE

There is some evidence to suggest that this material can cause eye irritation and damage in some persons.

#### SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Molten material is capable of causing burns.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### INHALED

There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Processing for an overly long time or processing at overly high temperatures may cause generation and release of highly irritating vapors, which irritate eyes, nose, throat, causing red itchy eyes, coughing, sore throat.

Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapor exposure. CAUTION: Vapors may be irritating.

#### CHRONIC HEALTH EFFECTS

There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.

This material contains a substantial amount of polymer considered to be of low concern. These are classified under having MWs of between 1000 to 10000 with less than 25% of molecules with MWs under 1000 and less than 10% under 500; or having a molecular weight average of over 10000. Functional groups contained on the polymer are then classified into risk categories. Being classified as a polymer of "low concern" does not mean that there are no hazards associated with the chemical.

### 3 Composition/information on ingredients

Name	CAS No.	EC No.	% wt/wt
Ethylene-hexene copolymer	---	---	99.86
additives	---	---	0.14

### 4 First aid measures

**After inhalation:** The material is not expected to present an inhalation hazard..

**After skin contact:** Cool skin rapidly if contacted with molten polymer. Obtain medical attention for thermal burns..

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**After swallowing:** If symptoms persist consult doctor.

**Ingestion:** No adverse health effects expected from ingestion..

**After first aid, get appropriate in-plant , paramedic, or community medical support.**

### 5 Fire-fighting measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Decomposes at high temperatures, resulting in toxic and corrosive products. Containers may explode when heated.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. Cool containers with flooding quantities of water until well after fire is out.

**Flash Point:** Not available.

**LEL:** Not Determined.

**UEL:** Not Determined.

**Special fire & explosion hazards:** Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion if fines accumulate. Wear standard fire fighting attire.

**Exiting using media:** Dry Chemical, Carbon Dioxide, and Foam.

**Unusual Fire or Explosion Hazards:** None.

## 6 Accidental release measures

**Small Spill and Leak:** Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.

**Large Spill and Leak:** Use a shovel to put the material into a convenient waste disposal container.

## 7 Handling and storage

The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.)

It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns.

Fumes or vapors emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin. Wear rubber or other impermeable gloves when cleaning contaminated areas.

Avoid process temperatures above decomposition temperatures. Overheating may occur at excessively high cylinder heats, overworking of the melt by wrong screw configuration, or by long dwell time in the machine. Under such conditions, thermal emissions and heat-degradation products might, without proper ventilation, reach hazardous concentrations in the converting area. Hot purgings should be collected only as thin flat strands to allow for rapid cooling. Hot purgings should be cooled by quenching in water in a well-ventilated area.

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked.

DO NOT allow material to contact humans, exposed food or food utensils.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately.

Launder contaminated clothing before re-use.

Use good occupational work practice.

Observe manufacturer's storing and handling recommendations.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are

maintained.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

Do NOT cut, drill, grind or weld such containers

In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

#### **RECOMMENDED STORAGE METHODS**

Polyethylene or polypropylene container.

Check all containers are clearly labelled and free from leaks.

#### **STORAGE REQUIREMENTS**

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storing and handling recommendations.

### **8 Exposure controls/personal protection**

#### **Ventilation and Engineering controls:**

*No special ventilation and engineering controls are required for handling of these products.*

#### **Respiratory Protection:**

*No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHS Standard, applicable U.S. State regulations, or the Canadian CSA standard.*

#### **Body Protection:**

*No special protective clothing is required.*

#### **Protective Gloves:**



*Protective Gloves*

*Rubber or plastic acid-resistant gloves with elbow-length gauntlet.*

#### **Eye Protection:**



*Tightly sealed goggles*

*Chemical goggles or face shield.*

**9 Physical and chemical properties****.General Information**

<b>Form:</b>	<i>Solid</i>
<b>Color:</b>	<i>White</i>
<b>Odor:</b>	<i>Odorless</i>
<b>.Change in condition</b>	
<b>Melting point/Melting range:</b>	<i>Not available</i>
<b>Boiling point/Boiling range:</b>	<i>Not available</i>
<b>.Flash point:</b>	<i>Not applicable</i>
<b>.Self-igniting:</b>	<i>Product is not self-igniting</i>
<b>.Danger of explosion:</b>	<i>Product does not present an explosion hazard</i>
<b>.Density:</b>	<i>Not available</i>
<b>.Relative density:</b>	<i>Not available</i>
<b>.Vapor density:</b>	<i>Not available</i>
<b>.Evaporation rate:</b>	<i>Not Applicable</i>
<b>.Solubility in/Miscibility with Water:</b>	<i>Insoluble</i>
<b>.PH-Value:</b>	<i>Not available</i>
<b>.Viscosity:</b>	
<b>Dynamic:</b>	<i>Not available</i>

**10 Stability and reactivity****CONDITIONS CONTRIBUTING TO INSTABILITY**

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerization will not occur.

**STORAGE INCOMPATIBILITY**

Avoid storage with oxidizers.

*For incompatible materials - refer to Section 7 - Handling and Storage.*

**11 Toxicological information**

Polyethylene

**TOXICITY AND IRRITATION**

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

**TOXICITY IRRITATION**

Oral (mouse) LD50: >3000 mg/kg Nil Reported

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

**CARCINOGEN**

Polypropylene      International Agency      Group 3  
    for Research on Cancer  
    (IARC) Carcinogens

**12 Ecological information**

DO NOT discharge into sewer or waterways.

### **13 Disposal considerations**

#### **Disposal Instructions**

All waste must be handled in accordance with local, state and federal regulations.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

Reduction,

Reuse

Recycling

Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.

Recycle wherever possible.

Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: Burial in a licensed land-fill or Incineration in a licensed apparatus (after admixture with suitable combustible material)

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **14 Transport information**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: DOT, IATA, IMDG.

### **15 Regulatory information**

polyethylene (CAS: 9002-88-4) is found on the following regulatory lists;

Canada Domestic Substances List (DSL)

Canada National Pollutant Release Inventory (NPRI)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS

International Agency for Research on Cancer (IARC) Carcinogens

US - Hawaii Air Contaminant Limits

US - Michigan Exposure Limits for Air Contaminants

US - Oregon Permissible Exposure Limits (Z3)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US Cosmetic Ingredient Review (CIR) Cosmetic ingredients found safe as used

US DOE Temporary Emergency Exposure Limits (TEELs)

US Food Additive Database

US NFPA 499 Combustible Dusts

US OSHA Permissible Exposure Levels (PELs) - Table Z3

US Toxic Substances Control Act (TSCA) - Inventory

**16 Other information**

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**DISCLAIMER OF LIABILITY**

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**End of document**

\*\*\*\*\* **End of Report** \*\*\*\*\*