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# SAFETY DATA SHEET

# 1. Identification

Material name: ALPHAGUARD PUMA QUICK FLASH 6 GAL

Material: 351950 806

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Incorporated 3735 Green Road BEACHWOOD OH 44122 US

Contact person:EH&S DepartmentTelephone:216-292-5000

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

Category 4

# 2. Hazard(s) identification

#### **Hazard Classification**

# **Physical Hazards**

Flammable liquids Category 1

#### **Health Hazards**

Acute toxicity (Inhalation - dust and

mist)

Serious Eye Damage/Eye Irritation Category 2A Skin sensitizer Category 1

#### **Unknown toxicity - Health**

Acute toxicity, oral 4.75 %
Acute toxicity, dermal 26.05 %
Acute toxicity, inhalation, vapor 74.35 %
Acute toxicity, inhalation, dust 80.7 %

or mist

#### **Label Elements**

## **Hazard Symbol:**





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Signal Word: Danger

**Hazard Statement:** Extremely flammable liquid and vapor.

Harmful if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing must not

be allowed out of the workplace.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTRE/doctor/ if you feel unwell. Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use ... to extinguish.

**Storage:** Store in well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

#### 3. Composition/information on ingredients

## Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Methyl methacrylate	80-62-6	15 - 40%
Aluminum hydroxide	21645-51-2	15 - 40%
Barium sulfate	7727-43-7	15 - 40%
Silicon dioxide, amorphous	112945-52-5	1 - 5%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures



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**Ingestion:** Rinse mouth thoroughly.

**Inhalation:** Move to fresh air.

Skin Contact: Get medical attention if symptoms occur. Take off immediately all

contaminated clothing. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction

develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

**Symptoms:** Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

up:

disposal according to local regulations.

**Notification Procedures:** 

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

# 7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Store in a cool place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
Methyl methacrylate	TWA	50 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	100 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm 410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Barium sulfate - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (02 2014)
Barium sulfate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Barium sulfate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Barium sulfate - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Barium sulfate - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Barium sulfate - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide -	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)



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Respirable fraction.			
·	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Silicon dioxide, amorphous	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	Туре	Exposure Limit Values	Source
Methyl methacrylate	TWA	50 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl methacrylate	TWA	50 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	100 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)



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Methyl methacrylate	TWA	50 ppm 205 mg/m3		Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	
Barium sulfate - Total dust.	TWA	10 mg/m3		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Barium sulfate - Respirable fraction.	TWA	3 mg/m3		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Barium sulfate	TWA	10 ו	mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)	
Barium sulfate - Total dust.	TWA	10 mg/m3 Canada. Quebec OELs. (Ministry of Labor -		Regulation Respecting the Quality of the Work	
Barium sulfate - Respirable dust.	TWA			Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	
Aluminum hydroxide - Respirable.	TWA	Exposure Limits for Chemical Substal Occupational Health and Safety Regu		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Aluminum hydroxide - Respirable fraction.	TWA	3 :	mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)	
Aluminum hydroxide - Total dust.	TWA	10 (	mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)	
Aluminum hydroxide - Respirable fraction.	TWA	1 ו	mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)	
Aluminum hydroxide - Inhalable fraction.	TWA	10 mg/m3 Canada. 0		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)	
Aluminum hydroxide - Respirable fraction.	TWA	3 1	mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)	
Aluminum hydroxide - Total dust.	TWA	10 ו	mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)	

# Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

## Individual protection measures, such as personal protective equipment

**General information:** Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level. Use explosion-proof ventilation equipment.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.



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Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Avoid contact with eyes. Observe good industrial hygiene practices. When

using do not smoke. Contaminated work clothing should not be allowed out

of the workplace. Avoid contact with skin.

## 9. Physical and chemical properties

**Appearance** 

Physical state:liquidForm:liquidColor:Gray

Odor: Mild petroleum/solvent
Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: 11.5 °C 52.7 °F(ISO 1516 (Pensky-Martens (A and B Closed

Cup)))

**Evaporation rate:** Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1.36

Solubility(ies)

Solubility in water: Practically Insoluble
Solubility (other): No data available.

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

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

# 10. Stability and reactivity

Reactivity: No data available.

**Chemical Stability:** Material is stable under normal conditions.



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Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Heat, sparks, flames.

Incompatible Materials: Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides

and chromates). Strong bases.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** May cause an allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

## Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Methyl methacrylate LD 50 (Rat): 7,900 mg/kg

Aluminum hydroxide LD 50 (Rat): > 2,000 mg/kg

Barium sulfate LD 50 (Rat): 364 g/kg

Silicon dioxide, LD 50 (Rat): 5,001 mg/kg

amorphous

**Product:** ATEmix: 7,663.21 mg/kg

Dermal



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Inhalation

**Product:** ATEmix: 2.3 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Methyl methacrylate in vivo (Rabbit): irritating after 4/24h occluded exposure Experimental result,

Weight of Evidence study

Aluminum hydroxide in vivo (Rabbit): Not classified as an Irritant Experimental result, Key study

Barium sulfate validated "in vitro" test method Not irritant Read-across from supporting

substance (structural analogue or surrogate), Key study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Aluminum hydroxide Rabbit, 24 hrs: Not irritating

Barium sulfate Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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## **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

## 12. Ecological information

#### **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Methyl methacrylate LC 50 (Fathead minnow (Pimephales promelas), 96 h): 130 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Barium sulfate EC 50 (Tubificid worm (Tubifex tubifex), 24 h): 34.2 - 57.71 mg/l Intoxication

## Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):



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Barium sulfate LC 1 (Oncorhynchus mykiss, 28 d): 2,813 μg/l Experimental result,

Supporting study

LC 50 (Oncorhynchus mykiss, 28 d): 42,700 µg/l Experimental result,

Supporting study

LC 10 (Oncorhynchus mykiss, 28 d): 9,543 µg/l Experimental result,

Supporting study

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Persistence and Degradability** 

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Methyl methacrylate Log Kow: 1.38

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

UN1866, RESIN SOLUTION, 3, PG II

CFR / DOT:

11/15



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UN1866, Resin solution, 3, PG II

#### IMDG:

UN1866, RESIN SOLUTION, 3, PG II

#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

## 15. Regulatory information

#### **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
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Methyl methacrylate 1000 lbs. Barium sulfate 1000 lbs.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Fire Hazard

Immediate (Acute) Health Hazards

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

#### <u>Chemical Identity</u> <u>Reportable quantity</u>

Methyl methacrylate 1000 lbs. Barium sulfate 1000 lbs.

# SARA 311/312 Hazardous Chemical

# <u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Methyl methacrylate 10000 lbs
Aluminum hydroxide 10000 lbs
Barium sulfate 10000 lbs
Silicon dioxide, amorphous 10000 lbs

#### SARA 313 (TRI Reporting)

## **Chemical Identity**

Methyl methacrylate

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.



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#### **US State Regulations**

## **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

## US. New Jersey Worker and Community Right-to-Know Act

## **Chemical Identity**

Methyl methacrylate Barium sulfate

#### **US. Massachusetts RTK - Substance List**

## **Chemical Identity**

Methyl methacrylate Barium sulfate Silicon dioxide, amorphous

## US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Methyl methacrylate Barium sulfate Silicon dioxide, amorphous

#### **US. Rhode Island RTK**

## **Chemical Identity**

Methyl methacrylate

# International regulations

# Montreal protocol

not applicable

#### Stockholm convention

not applicable

#### **Rotterdam convention**

not applicable

# **Kyoto protocol**

not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l

Regulatory VOC (less water and : 348 g/l

exempt solvent)

VOC Method 310 : 25.65 %



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**Inventory Status:** 

Australia AICS:

One or more components in this product are

not listed on or exempt from the Inventory.

Canada DSL Inventory List: One or more components in this product are

not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or

exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

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Further Information: No data available.



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Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.