SAFETY DATA SHEET



1. Identification

Product identifier VERSA-TECH THOR AZS G ON-LINE

Other means of identification

Brand Code 608C

Synonyms WM-7826 GUN MIX

Recommended use For Industrial Use Only

Recommended restrictions Avoid dry cutting, blasting, or dust generation.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HarbisonWalker International

Address 1305 Cherrington Parkway, Suite 100

Moon Township, Pennsylvania 15108 US

Telephone General Phone: 412-375-6600

Website www.thinkHWl.com Emergency phone number Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

Category 1

clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental informationUsers should be informed of the potential presence of respirable dust and respirable crystalline

silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Mullite		1302-93-8	40 - 60

Material name: VERSA-TECH THOR AZS G ON-LINE
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Chemical name	Common name and synonyms	CAS number	%
Zirconium Dioxide		1314-23-4	10 - 25
Aluminium Oxide (Non-Fibrous)		1344-28-1	2.5 - 10
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
Cement, Alumina, Chemicals		65997-16-2	2.5 - 10
Fumes, Silica		69012-64-2	2.5 - 10
Kyanite		1302-76-7	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10
Bentonite		1302-78-9	0.1 - 2.5
Other components below reportable levels			2.5 - 10

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Prolonged exposure may cause chronic effects.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice **General information**

Use fire-extinguishing media appropriate for surrounding materials.

(show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Not available. Not applicable.

Special protective equipment and precautions for firefighters

Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

14808-60-7 2/Irconium Dioxide (CAS PEL 5 mg/m3 3/I34-23-4 3/I34-23-3 3/I34-23-4 3/I34	Form
Quartz (SiO2) (CAS PEL 0.05 mg/m 14808-60-7) Quartz (SiO2) (CAS PEL 5 mg/m3 1314-23-4) US. OSHA Table Z-3 (29 CFR 1910.1000) Components Type Value Aluminium Oxide (CAS 1304-28-1) Amorphous Silica (CAS TWA 0.8 mg/m3 7631-86-9) Quartz (SiO2) (CAS TWA 0.1 mg/m3 1314-23-4) US. ACGIH Threshold Limit Values Components Type Value Aluminium Oxide (CAS 1302-76-7) TWA 1 mg/m3 1314-23-4) US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 0.025 mg/m3 1314-23-4) US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 0.025 mg/m3 1314-23-4) US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 0.05 mg/m3 1301-64-2)	Respirable fraction.
14808-60-7 2/Irconium Dioxide (CAS PEL 5 mg/m3 3/I34-23-4 3/I34-23-3 3/I34-23-4 3/I34	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000) Components Type Value Aluminium Oxide Non-Fibrous) (CAS 1344-28-1) 15 mg/m3 50 mppcf 15 mppcf Amorphous Silica (CAS 7631-86-9) 20 mppcf Fumes, Silica (CAS 39012-64-2) 20 mppcf Quartz (SiO2) (CAS 14808-60-7) US. ACGIH Threshold Limit Values Components Type Value Aluminium Oxide Non-Fibrous) (CAS 1344-28-1) Value Aluminium Oxide Non-Fibrous) (CAS 1344-28-1) Value Aluminium Oxide Non-Fibrous) (CAS 1344-28-1) Vayanite (CAS 1302-76-7) TWA 1 mg/m3 Quartz (SiO2) (CAS 1 TWA 1 mg/m3 Quartz (SiO2) (CAS 1 TWA 1 mg/m3	Respirable dust.
Type	
Non-Fibrous CAS 1344-28-1 15 mg/m3 50 mppcf 15 mppcf 20 mppcf	Form
So mppof	Respirable fraction.
Amorphous Silica (CAS TWA 0.8 mg/m3 7631-86-9) 20 mppcf 2	Total dust.
Amorphous Silica (CAS TWA 0.8 mg/m3 7631-86-9) 20 mppcf	Total dust.
7631-86-9) 20 mppcf Fumes, Silica (CAS S9012-64-2) 20 mppcf Quartz (SiO2) (CAS Al4808-60-7) 2.4 mppcf 753. ACGIH Threshold Limit Values Components Type Value Aluminium Oxide Non-Fibrous) (CAS AVA-28-1) Vayanite (CAS 1302-76-7) Value TWA 1 mg/m3 Audite (CAS 1302-93-8) Quartz (SiO2) (CAS AVA-28-1) TWA 1 mg/m3 TWA TWA TWA TWA TWA TWA TWA TW	Respirable fraction.
Tumes, Silica (CAS TWA 0.8 mg/m3 (20012-64-2) 20 mppcf (20012-64-2	
20 mppof Quartz (SiO2) (CAS 14808-60-7) 2.4 mppof US. ACGIH Threshold Limit Values Components Type Value Aluminium Oxide Non-Fibrous) (CAS 1344-28-1) Kyanite (CAS 1302-76-7) Mullite (CAS 1302-93-8) Quartz (SiO2) (CAS 14808-60-7) Zirconium Dioxide (CAS 1314-23-4) TWA TWA TWA TWA TWA TWA TWA TW	
Quartz (SiO2) (CAS TWA 0.1 mg/m3 (14808-60-7) 2.4 mppcf JS. ACGIH Threshold Limit Values Type Value Components TWA 1 mg/m3 Aluminium Oxide TWA 1 mg/m3 Non-Fibrous) (CAS 1344-28-1) 1 mg/m3 Kyanite (CAS 1302-76-7) TWA 1 mg/m3 Quartz (SiO2) (CAS TWA 0.025 mg/m3 Quartz (SiO2) (CAS TWA 10 mg/m3 1314-23-4) TWA 5 mg/m3 JS. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Tunes, Silica (CAS TWA 6 mg/m3 69012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	
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Sample S	Respirable.
Components Type Value	Respirable.
Non-Fibrous) (CAS 344-28-1) Kyanite (CAS 1302-76-7) TWA 1 mg/m3 Mullite (CAS 1302-93-8) TWA 1 mg/m3 Quartz (SiO2) (CAS TWA 0.025 mg/m3 Prictorium Dioxide (CAS STEL 10 mg/m3 JS. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 19012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	Form
Mullite (CAS 1302-93-8) Quartz (SiO2) (CAS 14808-60-7) Zirconium Dioxide (CAS 1314-23-4) TWA TWA 5 mg/m3 JS. NIOSH: Pocket Guide to Chemical Hazards Components Type Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 79012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	Respirable fraction.
Quartz (SiO2) (CAS TWA 0.025 mg/si4808-60-7) Zirconium Dioxide (CAS STEL 10 mg/m3 1314-23-4) TWA 5 mg/m3 JS. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	Respirable fraction.
14808-60-7	Respirable fraction.
TWA 5 mg/m3 JS. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 29012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	m3 Respirable fraction.
JS. NIOSH: Pocket Guide to Chemical Hazards Type Value Components TWA 6 mg/m3 Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) TWA 6 mg/m3 Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2) TWA 0.05 mg/m3	
Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2)	
Amorphous Silica (CAS TWA 6 mg/m3 7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	_
7631-86-9) Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/m	Form
59012-64-2) Quartz (SiO2) (CAS TWA 0.05 mg/n	
·	Respirable dust.
Zirconium Dioxide (CAS STEL 10 mg/m3 1314-23-4)	
TWA 5 mg/m3	

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable)

and respirable crystalline silica should be monitored and controlled.

Zirconium silicates (zircon sands) contain trace amounts (106-120 pCi/q) of naturally occurring radioactive uranium and thorium. Overexposure by inhalation to respirable dust containing uranium and thorium may cause lung cancer. Eye contact with the dust may cause eye irritation. Measurements made by Dupont during the use of a similar mineral sand indicated the observance of the 5 mg/m3 OSHA PEL for respirable dust and/or the PEL for quartz ensures the user is below the exposure limits established for uranium and thorium. No LD50 or LC50 can be found for zircon

Appropriate engineering

controls

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.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.









General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid. Solid. **Form**

Color Not available. Odor Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Powerful oxidizers. Chlorine. Fluorine. Incompatible materials

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may

not be specific to industrial application exposure.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica Carcinogenicity

inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory

occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and

respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans. Fumes, Silica (CAS 69012-64-2) 3 Not classifiable as to carcinogenicity to humans.

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Quartz (SiO2) (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Developmental effects

0 Quartz (SiO2) **Developmental effects - EU category** 0 Quartz (SiO2) **Embryotoxicity** Quartz (SiO2) 0 Reproductivity Quartz (SiO2) 0

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be **Chronic effects**

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available. No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Since this product is used in several industries, no Waste Code can be provided by the supplier. Hazardous waste code

The Waste Code should be determined in arrangement with your waste disposal partner or the

responsible authority.

Waste from residues / unused

products

Not available.

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Not applicable. Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

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15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All chemical substances in this product are listed on the TSCA

chemical substance inventory where required.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Quartz (SiO2) (CAS 14808-60-7) Cancer

lung effects

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Carcinogenicity

categories

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name

CAS number

% by wt.

Aluminium Oxide (Non-Fibrous)

1344-28-1 2.5 - 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including Quartz (SiO2): Quartz (SiO2): Quartz (SiO2):

Quartz (SiO2), which is known to the State of California to cause cancer. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988 Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Quartz (SiO2) (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

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SDS US

Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

 Issue date
 07-10-2017

 Revision date
 10-06-2020

Version # 02

Disclaimer This information is based on our present knowledge on creation date. However, this shall not

constitute a guarantee for any specific product features and shall not establish a legally valid

contractual relationship.

Revision information Product and Company Identification: Product and Company Identification

Identification: Recommended restrictions Hazard(s) identification: Prevention Hazard(s) identification: Response Hazard(s) identification: Storage

Composition / Information on Ingredients: Ingredients

Composition/information on ingredients: Component information

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Accidental release measures: Methods and materials for containment and cleaning up

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities

Stability and reactivity: Conditions to avoid

Ecological information: Persistence and degradability Regulatory information: California Proposition 65

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