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Revision date 01/17/2017
1 Identification Product identifier Product name: Pentaerythritol triacrylate
Stock number: 15705 CAS Number: 3524-68-3
EC number: 222-540-8
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757
Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07
Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS07
Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H316 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements P260 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 Take off contaminated clothing before reuse. P363 Wash contaminated clothing before reuse. P364 Specific treatment (see on this label). P321+P313 If skin irritation occurs: Get medical advice/attention. P332+P313 If skin irritation persists: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P361 Dispose of contents/container in accordance with local/regional/national/international regulations. WMMIS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WAMIS classification Dispose of contents/container in accordance with local/regional/national/international regulations.
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Fine: 0 Flammability = 1
REACTIVITY Physical Hazard = 1 Other hazards
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description: 3524-68-3 Pentaerythritol triacrylate Concentration: ≤100%
Concentration: ≤100% Identification number(s): EC number: 222-540-8
USA USA (Contd on page 2)

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4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	1
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delaved	
Causes skin irritation. Harmful i swallowed.	
Causes serious eye irritation. May cause an allergic skin reaction. Indication of environmediate medical attention and apoptial treatment peopled No further relevant information evoluble.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	\dashv
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture	
Danger of containers bursting upon heating. If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dioxide Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required	
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required. Reference to other sections	
Reference to other sections See Section 7 for information on safe handling	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling	
Handle under dry protective gas. Keep container tightly sealed.	
Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility:	
Information about storage in one common storage facility: Store in the dark. Protoct from heat	
Protect from heat. Store away from water/moisture. Store away from oxidizing agents	
Store away from oxidizing agents. Further information about storage conditions: Store under day inert as	
Store under dry inert gas. This product is hygroscopic. Keen container tightly sealed	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water.	
Protect from exposure to light. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	—
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters	
Components with limit values that require monitoring at the workplace:	
3524-68-3 Pentaerythritol triacrylate (100.0%) WEEL (USA) Long-term value: 1 mg/m ³	
Additional information: No data	
Exposure controls	
Personal protective equipment General protective and hygienic measures	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Breathing equipment: Use suitable respirator when high concentrations are present. (Contd. on p	oage 3)
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Product name: Pentaerythritol triacrylate

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(Contd. of page Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands: Impervious doves

Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9 Physical and chemical properties

Information on basic physical and che General Information Appearance: Form: Odor: Odor threshold:	emical properties Liquid Not determined Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined 1.16 g/cm ³ (9.68 lbs/gal) Not determined. Not determined.

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Danger of containers bursting upon heating. Stable until: Depletion of inhibitor. **Possibility of hazardous reactions** Reacts with strong oxidizing agents Danger of polymerization **Conditions to avoid** No further relevant information available. Incompatible materials: Water/moisture Oxidizing agents Heat Light Ultraviolet radiation Free radiations **Hazardous decomposition products:** Carbon monoxide and carbon dioxide **Additional information:** Unless inhibited, the product can polymerize resulting in a temperature and pressure increase that may rupture the container.

11 Toxicological information

Information on toxicological effects

Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance

LD/LC50 values that are relevant for classification:

Oral LD50 1830 mg/kg (rat)

Skin irritation or corrosion: Causes skin irritation.

Sensitization or corrosion: Causes serious eye irritation. Sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Germ cell mutagénicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for une substance. Carcinogenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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duct name: Pentaerythritol triacrylate	(Contd. of pa
Ecological information	
Toxicity	
Aquatic toxicity: No further relevant information available.	
Persistence and degradability No further relevant information availa Bioaccumulative potential No further relevant information available	able.
Mobility in soil No further relevant information available.	·
Additional ecological information: General notes:	
Do not allow undiluted product or large quantities to reach ground wa	ater, water course or sewage system.
Avoid transfer into the environment. Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable. Other adverse effects No further relevant information available.	
Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local or national regulations to ensu Uncleaned packagings:	ure proper disposal.
Recommendation: Disposal must be made according to official regu	Ilations.
Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	
DO I , ADN, IMDG, IA I A Transport hazard class(es)	Not applicable
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	
	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the	e IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	
	No
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Product name: Pentaerythritol triacrylate

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USA

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user."
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 01/25/2017 / Abbreviations and acronyms:
ARR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation
ENRECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
UPV9: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Agency (Dr Research on Cancer
EPA: Environmental Protection Agency (USA)
Acute Tox. 4: Acute toxicity, Hazard Category 2
Eye Intt. 24: Serious eye damage/eye irritation, Hazard Category 1