



1 Identification Product identifier Product name: Thidiazuron Stock number: J66663 **CAS Number:** 51707-55-2 EC number: -356-7 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. Inerrito Fisher Scheman C. 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 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 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. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 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: 51707-55-2 Thidiazuron Identification number(s): EC number: 257-356-7 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. (Contd. on page 2)

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Seek immediate medical advice. 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 delayed No further relevant information available. Indication of any immediate medical attention and special freatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media 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 If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) Nitrogen oxides (NOX) 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: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Not determined

Not determined

7 Handling and storage

Sublimation temperature / start:

Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. 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: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. 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. Protection of hands: 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White to off-white Odor: Odor threshold: Not determined Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined

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Product name: Thidiazuron	
	(Control of page 2)
Flowmobility (aplid gapping)	(Contd. of page 2)
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Explosion limits: Lower:	Not dotormined
Upper:	Not determined Not determined
Vapor pressure:	Not applicable.
Density:	Not determined
Relative density Vapor density	Not determined. Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not determined
Partition coefficient (n-octanol/water) Viscosity:): Not determined.
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.
10 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recom	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions R	to be avoided. Decomposition with not occur if used and stored according to specifications.
Conditions to avoid No further relevar	nt information available.
Incompatible materials: Oxidizing age Hazardous decomposition products:	ints
Garbon monoxide and carbon dioxide	
Sulfur oxides (SOx)	
Nitrogen oxides	
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11 Toxicological information	
Information on toxicological effects	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
Acute toxicity: The Registry of Toxic E	ffects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for	
Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation.	
Eye initiation of conosition. Causes serious eye initiation. Sensitization: No sensitizing effects known.	
Sensitization: No sensitizing effects kr Germ cell mutagenicity: No effects kn	iown.
Carcinogenicity: 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.	
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	<i>r</i> - single exposure: May cause respiratory irritation.
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.	
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant in	iformation available
Persistence and degradability No further relevant information available.	
Bioaccumulative potential No further relevant information available.	
Mobility in soil No further relevant information available. Additional ecological information:	
General notes:	
Do not allow undiluted product or large	quantities to reach ground water, water course or sewage system.
Avoid transfer into the environment.	
Results of PBT and vPvB assessmer PBT: Not applicable.	n.
vPvB: Not applicable.	
Other adverse effects No further relev	ant information available.
13 Disposal considerations	
Waste treatment methods	
Uncleaned packagings:	or national regulations to ensure proper disposal.
Recommendation: Disposal must be n	nade according to official regulations.
14 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name	
DOT, ADN, IMDG, ĬATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not applicable
Packing group	
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
· · ·	x II of MARPOL73/78 and the IBC Code Not applicable.
mansport in burk according to Anne.	

Safety Data Sheet per OSHA HazCom 2012

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No	
Regislation specific for the substance or mixture id labeled in accordance with 29 CFR 1910 (OSHA HCS) s/mist/vapours/spray. tive clothing/eye protection/face protection. with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. to fresh air and keep comfortable for breathing. ' in accordance with local/regional/national/international regulations. ' in accordance with local/regional/national/international regulations. ' in accordances List (DSL) or the Canadian Non-Domestic Substance Inventory. Use of this product is restricted must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This esic Substance is not listed. Not listed. Not listed. Not listed. Not listed. Not listed. Not listed. Not listed. Ny by technically qualified individuals. regulations produgt to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. '' tice 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the mg Authorisation for use) Substance is not listed. 'ty Assessment has not been carried out.	
supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in t, or in combination with any other product or process, is the responsibility of the user. partment /- reuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Substances nical Society) anada) hists (USA)	