





## (Contd. of page 1)

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## 5 Fire-fighting measures

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Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulfur oxides (SOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	) dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:
6 Accidental release measures	
<b>Personal precautions, protective equi</b> Wear protective equipment. Keep unpro Ensure adequate ventilation Keep away from ignition sources	tected persons away.
Methods and material for containmen	low material to be released to the environment without proper governmental permits. It and cleaning up:
Reference to other sections	d, diatomite, acid binders, universal binders, sawdust). ep away from ignition sources.
See Section 7 for information on safe has See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.
7 Handling and storage	
Handling	
Precautions for safe handling Keep container tightly sealed.	
Store in cool, dry place in tightly closed Ensure good ventilation at the workplace	en la fire
Information about protection against Protect against electrostatic charges. Fumes can combine with air to form an Keep ignition sources away.	
Conditions for safe storage, including	any incompatibilities
Storage Requirements to be met by storeroon Information about storage in one con Further information about storage co. Keep container tightly sealed.	ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions:
Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers. Finformation available.
8 Exposure controls/personal prote	ection
Additional information about design of Properly operating chemical fume hood	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Control parameters	
Components with limit values that rea Additional information: No data	quire monitoring at the workplace: Not required.
Exposure controls	
Personal protective equipment General protective and hygienic meas	Sures
The usual precautionary measures for h Keep away from foodstuffs, beverages a	and feed.
Remove all soiled and contaminated clo Wash hands before breaks and at the el	nd of work.
Maintain an ergonomically appropriate v Breathing equipment: Use suitable res	vorking environment. spirator when high concentrations are present.
Impervious aloves	
Check protective gloves prior to each us The selection of suitable gloves not only	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Penetration time of glove material (in Eye protection: Safety glasses	
Body protection: Protective work cloth	•
9 Physical and chemical properties Information on basic physical and ch	
General Information	
Appearance: Form: Color:	Liquid Colorless
Odor: Odor threshold:	Stench Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 141-142 °C (286-288 °F) Not determined
Flash point:	42 °C (108 °F)

42 °C (108 °F) Not determined.

. Flash point: Flammability (solid, gaseous)

## Product name: 5-Methylthiazole

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(Conit of genition temperature:     Not determined	Product name: 5-Methylthiazole		
Decomposition temperature:     Mod determined Mod between, formation of explosive all/vapor mixtures is possible.       Deprint of the control of explosive all/vapor mixtures is possible.     Mod determined Mod determined Wapor pressure:     Mod determined Mod determined Wapor pressure:     Mod determined Mod determined			(Contd. of page 2)
Explosion limits:   Not determined Upper:   Not determined Not determined With the termined Not determined Not det	Decomposition temperature:	Not determined	
Reactivity No information known.     Chemical stability Stability under recommended storage conditions.     Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.     Possibility of hazardous reactions to deavoided: Decomposition will not occur if used and stored according to specifications.     Prosting of hazardous reactions to the avoided: Decomposition will not occur if used and stored according to specifications.     Prosting of hazardous reactions to deavoid will be to the avoided: Decomposition reactions.     Hazardous decomposition products:     Carbon monoide and carbon dioxide stability of the stability of the avoided of the stability of the st	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:	Not determined Not determined Not determined 1.12 g/cm <sup>3</sup> (9.346 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.	
Information on toxicological effects     Acute toxicity: No effects known.     Explicit toxicity: No effects known.     Germ cell mutagementity: No effects known.     Germ cell mutagementity: No effects known.     Germ cell mutagementity: No effects known.     Reproductive toxicity: No effects known.     Specific target organ system toxicity - repeated exposure: No effects known.     Specific target organ system toxicity - single exposure: No effects known.     Specific target organ system toxicity - single exposure: No effects known.     Additional toxicological information     Zoolagical information.     Toxicity     Additional toxicological information available.     Persistence and degradability No further relevant information available.     Modificity in soll No Linther relevant information available.     Modificity in soll No Linther relevant information available.     Modificity in the period point information available.     Modificity in the effects No further relevant information available.     Modificity in the period point information     General notes:     Do not allow material to be released to the environment without proper governmental permits.     Avoid transfer into the environment.     Resultation Consult state, local or national regulations to ensure proper disposal.	Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides (SOx)	langerous reactions known information available.	
Toxicity Aquatic toxicity: No further relevant information 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 material to be released to the environment without proper governmental permits. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT. Not applicable. Other adverse effects No further relevant information available.     13 Disposal considerations Waste treatment methods Recommendation: Disposal must be made according to official regulations.     14 Transport information UN-Number DOT, IMDG, LATA   UN1993     UN proper shipping name DOT, IMDG, LATA   Flammable liquids. n.o.s. (5-Methylthiazole) FLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)	Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for cl Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data d Reproductive toxicity: No effects known. Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	irritation rritation wn. n carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. repeated exposure: No effects known. single exposure: No effects known.	
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.     14 Transport information     UN-Number DOT, IMDG, IATA   UN1993     UN proper shipping name DOT IMDG, IATA   Flammable liquids, n.o.s. (5-Methylthiazole) FLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)	Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	er relevant information available. levant information available. nation available. e environment without proper governmental permits.	
UN-Number DOT, IMDG, IATAUN1993UN proper shipping name DOTFlammable liquids, n.o.s. (5-Methylthiazole)IMDG, IATAFLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)	Waste treatment methods Recommendation Consult state, local of Uncleaned packagings:		
DOT, IMDG, IATAUN1993UN proper shipping name DOTFlammable liquids, n.o.s. (5-Methylthiazole)IMDG, IATAFLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)			
DOT Flammable liquids, n.o.s. (5-Methylthiazole) IMDG, IATA FLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)	DOT, ÎMDĞ, IATA	UN1993	
Transport hazard class(es)	DOT IMDG, IATA	Flammable liquids, n.o.s. (5-Methylthiazole) FLAMMABLE LIQUID, N.O.S. (5-Methylthiazole)	
DOT Class Label Second Second Sec	DOT Class Label	3	
Class 3 (F1) Flammable liquids		3 (F1) Flammable liquids	(Contd. on page 4) USA

	(Contd. of page
Label IMDG, IATA	3
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-E
Transport in bulk according to Annex II of MARPO	JL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (5-Methylthiazole), 3, III
National regulations This product is not listed in the U.S. Environmental Pri to research and development only. This product must product must not be used for commercial purposes or SARA Section 313 (specific toxic chemical listings California Proposition 65 Prop 65 - Developmental toxicity, Substance is not li Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance Information about limitation of use: For use only by Other regulations, limitations and prohibitive regu	clothing/eye protection/face protection. ing equipment. ing equipment. istely all contaminated clothing. Rinse skin with water/shower. eep cool. ccordance with local/regional/national/international regulations. rotection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri- to used by or directly under the supervision of a technically qualified individual as defined by TSCA. This in formulations for commercial purposes. <b>s</b> ) Substance is not listed. Itance is not listed. is not listed. is not listed. is not listed.
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety As Other information Employers should use this information only as a suppl	lement to other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the healt conformance with this Material Safety Data Sheet, or I <b>Department issuing SDS:</b> Global Marketing Department	th and safety of employees." This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user. nent s dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ansport Association" (IATA) anization" (ICAO) s par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Society)