





Product name: Isobutyramidoxime

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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 If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Possible Hydrogen cyanide (HCN)

Nulloger Dxloes (NOX) Possibly Hydrogen cyanide (HCN) 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 material to be released to the environment without proper governmental permits. 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. 7 Handling and storage 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: Not required. Additional information: No data

Exposure controls

Personal protective equipment General protective and hygienic measures 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: 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

9 Filysical and chemical properties	5
Information on basic physical and ch General Information Appearance: Form:	nemical properties
Color:	Pale vellow
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
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:	Not applicable Not determined Not determined Not determined Not determined
Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom	mended storage conditions	
Thermal decomposition / conditions t	mended storage conditions. t o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevant	t information available.	
Incompatible materials: Oxidizing ager Hazardous decomposition products:	nts	
Carbon monoxide and carbon dioxide		
Nitrogen oxides Possibly Hydrogen cyanide (HCN)		
11 Toxicological information Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for a Skin irritation or corrosion: Causes skin irritation or corrosion and the second statement of the second state		
Eve irritation or corrosion: Causes se	rious eve irritation.	
Germ cell mutagenicity: No effects kno	own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	- repeated exposure: No effects known.	
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	ts known. 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 inf	formation available	
Aquatic toxicity: No further relevant inf Persistence and degradability No furth	her relevant information available.	
Bioaccumulative potential No further r Mobility in soil No further relevant infor	relevant information available. rmation available.	
Additional ecological information:		
General notes: Do not allow material to be released to t	he environment without proper governmental permits.	
Do not allow undiluted product or large of Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	t	
PBT: Not applicable. vPvB: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be m	nade according to official regulations.	
14 Transport information Not a hazardous material for transportat	lion	
UN-Number	1011. 	
DOT, ÎMDĜ, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
Class Booking group	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	r II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
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DOT Marine Pollutant (DOT):	No
I5 Regulatory information Safety, health and environmental regulations/ GHS label elements The product is classified an Hazard pictograms	/ legislation specific for the substance or mixture nd labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
National regulations This product is not listed in the U.S. Environment to research and development only. This product 1 product must not be used for commercial purpose SARA Section 313 (specific toxic chemical lis California Proposition 65 Prop 65 - Chemicals known to cause cancer S Prop 65 - Developmental toxicity, Substance is Prop 65 - Developmental toxicity, female Substa Information about limitation of use: For use or Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) accc The conditions of restrictions according to Ar market and use must be observed. Substance is to listed.	stings) Substance is not listed. Substance is not listed. s not listed. Interpretation of the second state
Annex XIV of the REACH Regulations (requiri Chemical safety assessment: A Chemical Safe	ing Authorisation for use) Substance is not listed. ety Assessment has not been carried out.
information to ensure proper use and protect the	supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department issuing SDS: Global Marketing Department of preparation / last revision 11/24/2015/	apartment /- nandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Air Transport Association" (IATA) on Organization" (ICAO) mical Society)