





(Contd. of page 1)

# Product name: 3,5-Heptanedione

#### Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available. Danger If swallowed or in case of vomiting, danger of entering the lungs. Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 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 (CO) 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 Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). **Prevention of secondary hazards:** Keep away from ignition sources. **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

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Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed Ensure good ventilation at the workplace 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 Storage Requirements to be met by storeroom Information about storage in one com Further information about storage co Keep container tightly sealed. Store in cool, dry conditions in well seale Specific end use(s) No further relevant	explosions and fires: explosive mixture. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: No information known. nditions: ed containers.		
8 Exposure controls/personal prote	ection		
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 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. 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. Eye protection: Safety glasses Body protection: Protective work clothing.			
9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Liquid Clear Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 78-80 °C (172-176 °F) ((30mm Hg)) Not determined		
Flash point:	55 °C (131 °F)	(Contd. on page 2)	

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roduct name: 3,5-Heptanedione			
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Flormability (solid assocus)	Not dotorminod		(Contd. of page
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density at 20 °C (68 °F):	Not determined 0.94 a/cm³ (7.844 lbs/aal)		
Relative density	0.94 g/cm <sup>3</sup> (7.844 lbs/gal) Not determined.		
Vapor density Evaporation rate	Not determined. Not determined.		
Solubility in / Miscibility with			
Water:	Not determined		
Partition coefficient (n-octanol/water Viscosity:	): Not determinea.		
dynamic:	Not determined.		
kinematic:	Not determined. No further relevant information availa		
Other information		able	
) Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recom	nmended storage conditions.		
Thermal decomposition / conditions	to be avoided: Decomposition will not	t occur if used and stored according to specifications.	
Possibility of hazardous reactions N	lo dangerous reactions known		
Conditions to avoid No further relevant Incompatible materials:	nt Information available.		
Oxidizing agents No information known.			
No information known. Hazardous decomposition products:	· Carbon monoxide and carbon dioxide		
· · ·			
Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known.			
LD/LC50 values that are relevant for			
Skin irritation or corrosion: Irritant to Eye irritation or corrosion: Irritating e			
Sensitization: No sensitizing effects kr	nown		
Germ cell mutagenicity: No effects kr	nown.	A STATE TO A LABO NTD OSHA OF ACCIH	
<b>Carcinogenicity:</b> No classification data <b>Reproductive toxicity:</b> No effects know	3 ON CARCINOGENIC properties of this man	terial is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	y - repeated exposure: No effects know	wn.	
Specific target organ system toxicity Aspiration hazard: No effects known.	/ - single exposure: No effects known		
Subacute to chronic toxicity: No effe			
		te and chronic toxicity of this substance is not fully known.	
Ecological information			
e Ecological information			
Toxicity Aquatic toxicity: No further relevant in	oformation available.		
Persistence and degradability No fun	ther relevant information available.		
Bioaccumulative potential No further	relevant information available.		
Mobility in soil No further relevant info Additional ecological information:	rmation available.		
General notes:			
Do not allow material to be released to	the environment without proper govern	nmental permits.	
Do not allow undiluted product or large Avoid transfer into the environment.	, <b>,</b>	er course or sewage system.	
Results of PBT and vPvB assessment	nt		
PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relev	ant information available.		
3 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local Uncleaned packagings:	or national regulations to ensure prope	ər disposal.	
Recommendation: Disposal must be n	made according to official regulations.		
4 Transport information Not a hazardous material for transporta	- 1		
	ition.		
UN-Number DOT, IMDG, IATA		UN1224	
		None	
(IN) and a set of the			
UN proper shipping name			
DN proper snipping name DOT		None	

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Transport hazard class(es)	(Contd. of page
DOT	
<b>\</b>	
Class	3 Flammable liquids.
Label	None 3
Class	3 (F1) Flammable liquids None
Label IMDG, IATA	3
<b>*</b>	
Class	3 Flammable liquids.
Label	None 3
Packing group DOT, IMDG, IATA	
DOT, IMDG, IATA	III None
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 and Transport/Additional information:	Not dangerous according to the above specifications.
DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1224, Ketones, liquid, n.o.s. (3,5-heptanedione), 3, III
H226 Flammable liquid and vapour.	
Precautionary statements     P210   Keep away from heat/sparks/open flames/hot s     P280   Wear protective gloves/protective clothing/eye j     P240   Ground/bond container and receiving equipmer     P303+P361+P353 If on skin (or hair): Take off immediately all comtainer	surfaces. No smoking. protection/face protection. nt. taminated clothing. Rinse skin with water/shower.
Precautionary statements     P210   Keep away from heat/sparks/open flames/hot s     P280   Wear protective gloves/protective clothing/eye j     P240   Ground/bond container and receiving equipmer     P303+P361+P353   If on skin (or hair): Take off immediately all control     P403+P235   Store in a well-ventilated place. Keep cool.     P501   Dispose of contents/container in accordance with	surfaces. No smoking. protection/face protection. nt. taminated clothing. Rinse skin with water/shower. ith local/regional/national/international regulations.
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# Product name: 3,5-Heptanedione

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/23/2015 Reviewed on 02/05/2007

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USA -