

MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: :

ULM-10193-S

Revision date:

Version: 1.0

roduct form roduct name	
roduct name	: Mixtures
	: MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE
roduct code	: ULM-10193-S
.2. Relevant identified uses of the	substance or mixture and uses advised against
2.1. Relevant identified uses	
lain use category	: Professional use
dustrial/Professional use spec	: For professional use only
.2.2. Uses advised against	
lo additional information available	
.3. Details of the supplier of the sa	fety data sheet
ambridge Isotope Laboratories, Inc.	
0 Frontage Road ndover, MA 01810 ISA	
SA: 1-800-322-1174 Int: 1-978-749-800	0
lsales@isotope.com www.isotope.com	
Emergency telephone number	
mergency numbers:	
hemtrec: 1-800-424-9300 (24 hours) hternational: 1-703-741-5970 (24 hours)	
ECTION 2: Hazards identification	on la
.1. Classification of the substance	or mixture
lassification according to Regulation (E	EC) No. 1272/2008 [CLP]
lam. Liq. 2 H225	
kin Irrit. 2 H315	
ull text of hazard classes and H-statement	s : see section 16
lassification according to Directive 67/5	548/EEC [DSD] or 1999/45/EC [DPD]
; R11	
i; R38	
ull text of R-phrases: see section 16	
HS-US classification	
lam. Liq. 2 H225 kin Irrit. 2 H315	
ull text of H statements : see section 16	
dverse physicochemical, human health	and environmental effects
idney, Central nervous system.	
.2. Label elements	
abelling according to Regulation (EC) N	lo. 1272/2008 [CLP]
azard pictograms (CLP)	



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Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour H315 - Causes skin irritation
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour H315 - Causes skin irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P264 - Wash Both hands thoroughly after handling P280 - Wear eye protection, face protection, protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use Water spray, Alcohol resistant foam, Dry chemical, Carbon dioxide. to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to Comply with applicable regulations

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4 (EC No) 216-653-1 (EC Index No) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	F; R11 Xi; R38
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED	(CAS No) 936022-02-5 (EC Index No)	0.013	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4 (EC No) 216-653-1 (EC Index No) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED	(CAS No) 936022-02-5 (EC Index No)	0.013	Not classified

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Name	Product identifier	%	GHS-US classification
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED	(CAS No) 936022-02-5	0.013	Not classified

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	 If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medical No additional information available	attention and special treatment needed
SECTION 5: Fire-fighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the sub	ostance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	Jipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment as required. Avoid breathing vapours, mist, gas. Provide adequate ventilation to minimize dust and/or vapour concentrations. Avoid dust formation. Evacuate area. Remove all sources of ignition. Special attention should be given to low areas/pits where flammable vapours can accumulate.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Avoid	release to the environment.
6.3. Methods and material for containme	nt and cleaning up
For containment	: Collect spillage. This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
No additional information available	

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, spray, vapours. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Prevent the build-up of electrostatic charge. Provide adequate ventilation to minimize dust and/or vapour concentrations.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store refrigerated (-5 C to 5 C). Protect from light.

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	ontrois/personal protection		
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	144 mg/m ³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
METHYL TERT-BUTYL ETHE	R UNLABELED (1634-04-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	144 mg/m ³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	

8.2. Exposure controls

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment

Materials for protective clothing

Skin and body protection

Respiratory protection

Hand protection

Eye protection

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- : Wear eye protection. Chemical goggles or face shield with safety glasses.
 - : Wear suitable protective clothing, gloves and eye/face protection.
 - : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
- Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The properties listed below are for the solven	t, the main component of this mixture.
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 88.15 g/mol
Colour	: Colourless.
Odour	: No data available.
Odour threshold	: No data available
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рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -108.6 °C (-163.5 °F)
Freezing point	: No data available
Boiling point	: 55 - 56 °C (131 - 133 °F) - lit.
Flash point	: -33 °C (- 27.4 °F) - closed cup
Auto-ignition temperature	: 374 °C (705.2 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1018.7 hPa (764.1 mmHg) at 55°C (131°F), 279.2 hPa (209.4 mmHg) at 20 °C (68°F)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.74 g/ml at 25 °C (77 °F)
Solubility	: Water: 42 g/l at 20 °C (68 °F) - OECD Test Guideline 105
Log Pow	: 1.06
Log Kow	: No data available
Viscosity, kinematic	: 0.464 mm²/s at 20 °C (68 °F) - 0.409 mm2/s at 40 °C (104 °F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1.6 - 15.1 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent. Strong acids.	
10.6. Hazardous decomposition products	
Carbon oxides (CO, CO2).	
SECTION 11: Toxicological informatic	n
11.1. Information on toxicological effects	
	: Not classified
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHT	
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h - 4 h
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h - 4 h
Skin corrosion/irritation	: Skin - Rabbit Result: Skin irritation
Serious eye damage/irritation	: Eyes - Rabbit Result: No eye irritation
Respiratory or skin sensitisation	: Will not occur
Germ cell mutagenicity	Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
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SECTION 12: Ecological information

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. nausea, vomiting. Dizziness. central nervous system. Aspiration of this material may cause chemical pneumonia.
IARC group	: 2B
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

MONO-(4-METHYL-7-CARBOXYHEPTY	L) PHTHALATE UNLABELED 100 UG/ML IN MTBE	
LC50 fish 1	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	472 mg/l Daphnia magna (Water flea) - 48 h	
EC50 other aquatic organisms 1	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h	
LC50 fish 2	> 1000 mg/l other fish - 96 h	
METHYL TERT-BUTYL ETHER UNLAB	ELED (1634-04-4)	
LC50 fish 1	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	472 mg/l Daphnia magna (Water flea) - 48 h	
EC50 other aquatic organisms 1	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h	
LC50 fish 2	> 1000 mg/l other fish - 96 h	

12.2. Persistence and degradability	
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHT	HALATE UNLABELED 100 UG/ML IN MTBE
Biodegradation	0 % - Not readily biodegradable. (OECD Test Guideline 301D)
METHYL TERT-BUTYL ETHER UNLABELED (*	1634-04-4)
Biodegradation	0 % - Not readily biodegradable. (OECD Test Guideline 301D)
12.3. Bioaccumulative potential	
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHT	HALATE UNLABELED 100 UG/ML IN MTBE
Log Pow	1.06
METHYL TERT-BUTYL ETHER UNLABELED (*	1634-04-4)
Log Pow	1.06
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Product/Packaging disposal recommendations:	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADI	N
14.1. UN number	

UN-No.(DOT)	: 2398	
DOT NA no.	UN2398	
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14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Methyl tert-butyl ether
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT RQ	: 1000 lbs
Marine pollutant	: No
14.3. Additional information	

Emergency Response Guide (ERG) Number	: 127
Other information	: No supplementary information available.
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids
Orange plates	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
EAC code	: •3YE
Excepted quantities (ADR)	: E2
Transport by sea	
DOT Vessel Stowage Location	: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
MFAG-No	: 127

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Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	· No supplementary information available.

Other Information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information			
15.1. US Federal regulations			
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHT	HALATE UNLABELED 100 UG/ML IN MTBE		
Subject to reporting requirements of United States SARA Section 313			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
MONO-(4-METHYL-7-CARBOXYHEPTYL) PHT	MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED (936022-02-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313		
METHYL TERT-BUTYL ETHER UNLABELED (1	634-04-4)		
Subject to reporting requirements of United State	s SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		

15.2. International regulations

CANADA

MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE	
Listed on the Canadian DSL (Domestic Substances List)	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	

15.2.1. National regulations

No additional information available

15.3. US State regulations

MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALA	TE UNLABELED 100 UG/ML IN MTBE()
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List

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MONO-(4-METHYL-7-CARBOXYHEPTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE()				
U.S New Jersey - Right to Know Hazardous Substance List				
		U.S Pennsylvania - RTK (Rig	ght to Know) List	
MONO-(4-METHYL-7-CA	RBOXYHEPTYL) PHTHALATE	UNLABELED (936022-02-5)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
METHYL TERT-BUTYL E	THER UNLABELED (1634-04-	4)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
MONO-(4-METHYL-7-CA	RBOXYHEPTYL) PHTHALATE	UNLABELED (936022-02-5)		
State or local regulations	\$			
U.S Pennsylvania - RTK U.S New Jersey - Right	(Right to Know) List to Know Hazardous Substance	List		
METHYL TERT-BUTYL E	THER UNLABELED (1634-04-	4)		
State or local regulations	5			
U.S Massachusetts - Rig U.S New Jersey - Right U.S Pennsylvania - RTK	to Know Hazardous Substance	List		

Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-statements:

Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
R11	Highly flammable
R38	Irritating to skin
F	Highly flammable
Xi	Irritant

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 2 Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- : 3 Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- 0 Material that in themselves are normally stable, even • under fire conditions.



HMIS III Rating

Health	
Flammability	
Physical	

- : 2 Moderate Hazard Temporary or minor injury may occur
- : 3 Serious Hazard
- : 0 Minimal Hazard

CIL Mixture SDS

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