

# 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: 31/05/2017 Revision date: :

JR-F05-25

Version: 1.0

<b>SECTION 1: Identifica</b>	ation of the substance/mixture and of the company/undertaking
1.1. Product identifie	r
Product form	: Mixtures
Product name	: 1,2,3,9-TETRACDF UNLABELED ~25 NG/ML IN NONANE
Product code	: JR-F05-25
1.2. Relevant identifie	ed uses of the substance or mixture and uses advised against
1.2.1. Relevant identifie	ed uses
Main use category	: Professional use
Industrial/Professional use s	spec : For professional use only
1.2.2. Uses advised ag	ainst
No additional information av	
1.3. Details of the sup	pplier of the safety data sheet
Cambridge Isotope Laborato 50 Frontage Road Andover, MA 01810 USA	pries, Inc.
USA: 1-800-322-1174 Int: cilsales@isotope.com ww	1-978-749-8000 /w.isotope.com
Emergency telep	hone number
Emergency numbers:	
Chemtrec: 1-800-424-9300 International: 1-703-741-59	
SECTION 2: Hazards	identification
2.1. Classification of	the substance or mixture
Classification according to	o Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dus	.t,mist) H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Full text of hazard classes a	nd H-statements : see section 16
Classification according to	o Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Xn; R20 Xn; R65 Xi; R36/37/38 R10	
Full text of R-phrases: see s	section 16
GHS-US classification	
Flam Lig 3	H226

Flam. Liq. 3 Acute Tox. 4 (Inhalation:vapour)	H226 H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 3	H336
Asp. Tox. 1	H304

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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#### Label elements 2.2. Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS08 GHS07 Signal word (CLP) : Danger : N-NONANE UNLABELED Hazardous ingredients Hazard statements (CLP) : H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness 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 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash hands, forearms and face thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves **GHS-US** labeling Hazard pictograms (GHS-US) GHS07 GHS02 GHS08 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness 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, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER 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 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool

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P405 - Store locked up

P501 - Dispose of contents/container to Comply with applicable regulations

#### **Other hazards** 2.3.

#### No additional information available

#### **SECTION 3: Composition/Information on ingredients**

**Substances** 3.1.

Not applicable

3.2. **Mixtures** 

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	99.9999965	R10 Xn; R20 Xn; R65 Xi; R36/37/38
1,2,3,9-TETRACDF UNLABELED	(CAS No) 83704-23-8 (EC No) (EC Index No)	0.0000035	Xi; R36/37/38 Xn; R22 R53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC No) 203-913-4	99.9999965	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
1,2,3,9-TETRACDF UNLABELED	(CAS No) 83704-23-8 (EC No) (EC Index No)	0.0000035	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS No) 111-84-2	99.9999965	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
1,2,3,9-TETRACDF UNLABELED	(CAS No) 83704-23-8	0.0000035	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413

#### Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice. Evacuate danger area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	: May cause drowsiness or dizziness.
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	

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ge and transport.
ng respiratory protection.
t. Self-contained breathing
pen flames, no sparks, and
I contact with skin and eyes.
t. For further information
local regulations for disposal.
duct enters sewers or public
ife way, and as per local
ive equipment.
hands after handling the
p dry. Ground/bond container
ACGIH Threshold Limit
Recommended Exposure
commended Exposure
npairment
npairment Table Z-1 Limits for Air

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N-NONANE UNLABELED (111-84-2)		
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.

# 8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

Ensure good ventilation of the work station.Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: protective gloves.
Eye protection	: Chemical goggles or face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved 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 solvent, the main com	ponent of this mixture.
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 128.3 g/mol
Color	: Colorless.
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -53 °C (- 63 °F) - lit
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31 °C (87.8 °F) - closed cup
Auto-ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.718 g/ml at 25 °C (77 °F)
Solubility	: Water: 0.0002 % at 25 °C (77 °F) - slightly soluble
Log Pow	: 5.65
Log Kow	: No data available
Viscosity, kinematic	: 1.008 mm²/s at 20 °C (68 °F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 0.87 - 2.9 % (V)
0.0 Other information	

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability		
Stable if stored under recommended conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal cond	ditions of use.	
10.4. Conditions to avoid		
None under recommended storage and handling of	conditions (see section 7).	
10.5. Incompatible materials No additional information available		
<b>10.6.</b> Hazardous decomposition products		
Carbon oxides (CO, CO2).		
SECTION 11: Toxicological informatic	on	
11.1. Information on toxicological effects		
Acute toxicity	: Inhalation:dust,mist: Harmful if inhaled.	
1,2,3,9-TETRACDF UNLABELED ~25 NG/ML I	N NONANE	
ATE CLP (dust, mist)	1.500 mg/l/4h	
N-NONANE UNLABELED (111-84-2)		
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4 h	
ATE CLP (gases)	3200.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	23.760 mg/l/4h	
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	
Additional information	: S. Typhimurium Result: negative	
1,2,3,9-TETRACDF UNLABELED (83704-23-8)		
ATE CLP (oral)	500.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.	
Specific target organ toxicity – repeated	: Not classified	
exposure		
N-NONANE UNLABELED (111-84-2)		
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
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.	
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.	
Symptoms/injuries after skin contact	: Causes skin irritation. May be harmful in contact with skin.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
N-NONANE UNLABELED (111-84-2)	
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h
12.2. Persistence and degradability	

No additional information available

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12.3. Bioaccumulative potential	
1,2,3,9-TETRACDF UNLABELED ~25 NG/ML	IN NONANE
Log Pow	5.65
N-NONANE UNLABELED (111-84-2)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmen	t
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
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 / AD	N
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Nonanes
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the
	bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this
	subchapter are applicable.
	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
	(31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table
	2 for UN2672). T2 - 1.5 178.274(d)(2) Normal 178.275(d)(3)
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the
	following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature
DOT Declaring Free line (40.05D (72)	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 203 : 242
Do Fridonaying Duik (45 OFIX 175.888)	. 172
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
	. No supplementary monitation available.
Overland transport	
Hazard identification number (Kemler No.)	: 30
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Orange plates	<b>30</b> <b>1920</b>
	1920
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	51
EAC	: 3Y
Excepted quantities (ADR)	: E1
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Annex	II of MARPOL 73/78 and the IBC Code
Not applicable	
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	
1,2,3,9-TETRACDF UNLABELED ~25 NG/ML	IN NONANE
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
N-NONANE UNLABELED	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

Listed on the Onited States TSCA (Toxic Substances Control Act) inventory				
T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.				
Not subject to reporing requirements of the United States SARA Section 302.				
Fire hazard Immediate (acute) health hazard				
Not subject to reporing requirements of the United States SARA Section 313.				
1,2,3,9-TETRACDF UNLABELED (83704-23-8)				
Not listed on the United States TSCA (Toxic Substances Control Act) inventory				
Not subject to reporing requirements of the United States SARA Section 302.				
Not subject to reporing requirements of the United States SARA Section 313.				

#### **15.2. International regulations**

# CANADA

1,2,3,9-TETRACDF UNLABELED ~25 NG/ML IN NONANE
Listed on the Canadian DSL (Domestic Substances List)
N-NONANE UNLABELED
Listed on the Canadian DSL (Domestic Substances List)

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### 15.2.1. National regulations

# N-NONANE UNLABELED

## 1,2,3,9-TETRACDF UNLABELED (83704-23-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### 15.3. US State regulations

1,2,3,9-TETRACDF UNLABELED ~25 NG/ML IN NONANE()				
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 Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances			

# N-NONANE UNLABELED

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	
1,2,3,9-TETRACDF UN	LABELED (83704-23-8)			
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	

#### N-NONANE UNLABELED

#### State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

## 1,2,3,9-TETRACDF UNLABELED (83704-23-8)

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - 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-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3

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Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
Xi	Irritant
Xn	Harmful

NFPA health hazard NFPA fire hazard NFPA reactivity

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

temperature conditions.

under fire conditions.

**CIL Mixture SDS** 

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

: 2 - Materials that, under emergency conditions, can cause

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient

: 0 - Material that in themselves are normally stable, even

temporary incapacitation or residual injury.

0