

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-Jul-2024 Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Catalog Number:	Product Description:
40-4120-XX	10% 1-Methylimidazole in Tetrahydrofuran

Product Code(s) Product Name 40-4120-XX Cap Mix B

Pure substance/mixture Mixture Contains Tetrahydrofuran; N-Methylimidazole

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use For research use only

Uses advised against Not for human diagnostic use

1.3. Details of the supplier of the safety data sheet

Manufacturer

Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA

For further information, please contact

E-mail address support@glenresearch.com

Website www.glenresearch.com

Company Phone Number 1-703-437-6191

1.4. Emergency telephone number

Emergency Telephone CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation

US: 1-800-424-9300 or Local: +1-703-527-3887

EMEA: +44 20 3885 0382 APAC: +65 3163 8374

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Carcinogenicity	Category 2 - (H351)

Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 Respiratory irritation	
Flammable liquids	Category 2 - (H225)

2.2. Label elements

Contains Tetrahydrofuran; N-Methylimidazole



Signal word Danger

Hazard statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H225 - Highly flammable liquid and vapor

EUH019 - May form explosive peroxides

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Tetrahydrofuran	87-93	No data available	(603-025-00	Eye Irrit. 2 (H319)	Eye Irrit. 2 ::	-	-
109-99-9			-0)	Carc. 2 (H351)	C>=25%		
			203-726-8	STOT SE 3 (H335)	STOT SE 3 ::		
				Flam. Liq. 2 (H225)	C>=25%		

				(EUH019)			
N-Methylimidazole	7-13	No data available	210-484-7	Acute Tox. 4 (H302)	-	-	-
616-47-7			(613-035-00	Acute Tox. 4 (H312)			
			-7)	Skin Corr. 1B (H314)			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Tetrahydrofuran 109-99-9	1650	2000	No data available	No data available	No data available
N-Methylimidazole 616-47-7	1144	400	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

attention.

Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get immediate medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give

mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products

Nitrogen oxides (NOx). Carbon oxides.

5.3. Advice for firefighters

Personal precautions

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention!

Corrosive material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains. Should not be released into the

environment. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Tetrahydrofuran	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm	STEL: 100 ppm	TWA: 50 ppm
109-99-9	TWA: 150 mg/m ³	TWA: 150 mg/m ³	TWA: 150 mg/m ³	STEL: 300.0 mg/m ³	TWA: 150 mg/m ³
	STEL: 100 ppm	STEL 100 ppm	STEL: 100 ppm	TWA: 50.0 ppm	STEL: 100 ppm
	STEL: 300 mg/m ³	STEL 300 mg/m ³	STEL: 300 mg/m ³	TWA: 150.0 mg/m ³	STEL: 300 mg/m ³
	*	H*	D*	K*	*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Tetrahydrofuran	*	TWA: 150 mg/m ³	TWA: 50 ppm	S+	TWA: 50 ppm
109-99-9	STEL: 100 ppm	Ceiling: 300 mg/m ³	TWA: 150 mg/m ³	TWA: 50 ppm	TWA: 150 mg/m ³
	STEL: 300 mg/m ³	D*	H*	TWA: 150 mg/m ³	STEL: 100 ppm
	TWA: 50 ppm		STEL: 300 mg/m ³	STEL: 100 ppm	STEL: 300 mg/m ³

	TWA: 150 mg/m ³		STEL: 100 ppm		300 mg/m ³ A*	iho*
Chemical name	France	Cormony TDCS	Germany DFG		eece	Lungory
	TWA: 50 ppm	Germany TRGS TWA: 50 ppm	TWA: 20 ppm			Hungary TWA: 150 mg/m ³
Tetrahydrofuran 109-99-9					200 ppm	
109-99-9	TWA: 150 mg/m ³	TWA: 150 mg/m ³	TWA: 60 mg/m ³ Peak: 40 ppm		90 mg/m ³	TWA: 50 ppm
	STEL: 100 ppm STEL: 300 mg/m ³	"	Peak: 120 mg/m ³		250 ppm '35 mg/m ³	STEL: 300 mg/m ³ STEL: 100 ppm
	3 TEL. 300 Hig/III°		reak. 120 mg/m²	SIEL. 1	35 mg/m²	h*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	l a	atvia	Lithuania
Tetrahydrofuran	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm		50 ppm	O*
109-99-9	TWA: 30 ppm TWA: 150 mg/m ³	TWA: 30 ppin TWA: 150 mg/m ³	TWA: 147 mg/m ³		50 mg/m ³	TWA: 50 ppm
109-99-9	STEL: 100 ppm	STEL: 100 ppm	STEL: 100 ppm		100 ppm	TWA: 30 ppin TWA: 150 mg/m ³
	STEL: 300 mg/m ³	STEL: 300 mg/m ³	STEL: 295 mg/m ³		300 mg/m ³	STEL: 100 ppm
	Sk*	cute*	cute*		.da*	STEL: 300 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands		rway	Poland
Tetrahydrofuran	Peau*	skin*	TWA: 100 ppm		50 ppm	STEL: 300 mg/m ³
109-99-9	STEL: 100 ppm	STEL: 100 ppm	TWA: 300 mg/m ³		50 mg/m ³	TWA: 150 mg/m ³
103 33 3	STEL: 300 mg/m ³	STEL: 300 mg/m ³	STEL: 200 ppm		75 ppm	skóra*
	TWA: 50 ppm	TWA: 50 ppm	STEL: 600 mg/m ³		37.5 mg/m ³	okora
	TWA: 150 mg/m ³	TWA: 150 mg/m ³	H*		H*	
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
Tetrahydrofuran	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA:	50 ppm	TWA: 50 ppm
109-99-9	TWA: 150 mg/m ³	TWA: 150 mg/m ³	TWA: 150 mg/m ³	TWA: 1	50 mg/m ³	TWA: 150 mg/m ³
	STEL: 100 ppm	STEL: 100 ppm	K*	STEL:	100 ppm	STEL: 100 ppm
	STEL: 300 mg/m ³	STEL: 300 mg/m ³	Ceiling: 300 mg/m ³	STEL: 3	300 mg/m ³	STEL: 300 mg/m ³
	Cutânea*	P*			K*	vía dérmica*
Chemical name	S	weden	Switzerland		Uni	ted Kingdom
Tetrahydrofuran	NG\	/: 50 ppm	TWA: 50 ppm		TV	VA: 50 ppm
109-99-9		150 mg/m ³	TWA: 150 mg/n			A: 150 mg/m³
	Bindande	KGV: 100 ppm	STEL: 100 ppn			EL: 100 ppm
	Bindande I	KGV: 300 mg/m ³	STEL: 300 mg/r	n ³	STE	L: 300 mg/m ³
			H*			Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulg	jaria	Croatia		Czech Republic
Tetrahydrofuran	-	-	-	•	2 mg/L - urir		-
109-99-9					(Tetrahydrofura		
					at the end of		
					work shift		
Chemical name	Denmark	Finland	Fra	nce	Germany DF		Germany TRGS
Tetrahydrofuran	-	-	-	-	2 mg/L (urine		2 mg/L (urine -
109-99-9						n end	Tetrahydrofuran end
					of shift)		of shift)
					2 mg/L - BAT (e		
					exposure or er		
				14 1	shift) urine		to L. AUDII
Chemical name	Hungary	Irelan	-	Italy	/ MDLPS		Italy AIDII
Tetrahydrofuran	2 mg/L (urine -	2 mg/L (u			-		2 mg/L - urine
109-99-9	Tetrahydrofuran end	,				(Tetra	ahydrofuran) - end of
	shift)	shift)					shift
	28 µmol/L (urine -						
	Tetrahydrofuran end	l of					
	shift)						01 1:
Chemical name	Latvia	Luxembo	ourg	R	omania		Slovakia
Tetrahydrofuran	-	-			-	l	2 mg/L (urine -
109-99-9							rahydrofuran end of
							osure or work shift)
Chemical name	Slovenia	Spair			itzerland		United Kingdom
Tetrahydrofuran	2 mg/L - urine	2 mg/L (u	rine -	2 mg	g/L (urine -		-

109-99-9	(Tetrahydrofuran) - at the end of the work shift	Tetrahydrofuran end of shift)	Tetrahydrofuran end of shift)	
		,	27.7 µmol/L (urine -	
			Tetrahydrofuran end of	
			shift)	

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

8.2. Exposure controls

Engineering controls Showers

Eyewash stations Ventilation systems

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Hand protection Contact glove manufacturer for recommendations. Gloves must conform to standard EN

374. Wear suitable gloves. Impervious gloves.

Skin and body protection EN ISO 6529. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant

apron. Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceClear LiquidColorClear

OdorSweet Ether-like odorOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH No data available (1-Methylimidazole)

pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Water solubility Completely soluble None known No data available Solubility(ies) None known No data available Partition coefficient None known Vapor pressure No data available None known Relative density 0.90g/mL None known

Bulk density No data available
Liquid Density No data available

Relative vapor density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous decomposition products Nitrogen oxides (NOx). Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

(based on components). Corrosive to the eyes and may cause severe damage including

blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 1,747.50 mg/kg

 ATEmix (dermal)
 2,037.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

Unknown acute toxicity

10 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrahydrofuran	= 1650 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 14.7 mg/L (Rat) 4 h
N-Methylimidazole	= 1144 mg/kg (Rat)	400 - 640 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye

damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes

burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Tetrahydrofuran	Carc. 2

Reproductive toxicity No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicityContains 10 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Tetrahydrofuran	-	LC50: 1970 - 2360mg/L	-	-
		(96h, Pimephales		
		promelas)		
		LC50: 2700 - 3600mg/L		
		(96h, Pimephales		
		promelas)		

12.2. Persistence and degradability

Persistence and degradability Not Likely.

12.3. Bioaccumulative potential

Bioaccumulation

Bioconcentration factor (BCF) log Pow <= 4

Component Information

Chemical name	Partition coefficient	
Tetrahydrofuran	0.45	
N-Methylimidazole	-0.19	

12.4. Mobility in soil

Mobility in soil Not expected to adsorb on soil.

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment	
Tetrahydrofuran	The substance is not PBT / vPvB	
N-Methylimidazole	The substance is not PBT / vPvB	

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN2924 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Class 3, (8) 14.4 Packing group Packing Group II 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number UN2924 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Class 3, (8) Packing Group II 14.4 Packing group Not applicable 14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions None EmS-No.

14.7 Maritime transport in bulk according to IMO instruments

F-E, S-C

No information available

RID

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Tetrahydrofuran	RG 84	-
109-99-9		

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Tetrahydrofuran - 109-99-9	75.	-
N-Methylimidazole - 616-47-7	75.	-

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA All of the components of this product are listed in the TSCA Inventory or exempt.

DSL/NDSL
Listed or exempt

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

Revision date 01-Jul-2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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End of Safety Data Sheet