

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:	
40-4220-XX	16% 1-Methylimidazole in Tetrahydrofuran	
Product Code(s) 40-4220-XX	Product Name Cap Mix B	
Pure substance/mixture Contains Tetrahydrofuran; N-Methy	Mixture imidazole	
1.2. Relevant identified uses of the	e 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)
Acute toxicity - Dermal	Category 4 - (H312)
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 H312 - Harmful in contact with skin 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

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	70-90	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) (EUH019)	C>=25%		
N-Methylimidazole	10-30	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 contact	Rinse 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 physiciansProduct 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 th	e 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	
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

Personal precautions	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 conta	inment 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, inc	cluding 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 practicular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

Store locked up. Protect from moisture. 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

		50 ppm		STEL: 300 mg/m ³		100 ppm	STEL: 300 mg/m ³
	TWA: 15	50 mg/m³		STEL: 100 ppm	STEL: 3	300 mg/m ³	iho*
						A*	
Chemical name	Fra	ance	Germany TRGS	Germany DFG	Gr	eece	Hungary
Tetrahydrofuran	TWA:	50 ppm	TWA: 50 ppm	TWA: 20 ppm	TWA:	200 ppm	TWA: 150 mg/m ³
109-99-9	TWA: 15	50 mg/m ³	TWA: 150 mg/m ³	TWA: 60 mg/m ³	TWA: 5	90 mg/m ³	TWA: 50 ppm
		100 ppm	H* Č	Peak: 40 ppm	STEL:	250 ppm	STEL: 300 mg/m ³
	STEL: 3	00 mg/m ³		Peak: 120 mg/m ³		735 mg/m ³	STEL: 100 ppm
		*		*		5	b*
Chemical name	Irel	land	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Tetrahydrofuran	TWA:	50 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA:	50 ppm	O*
109-99-9	TWA: 15	50 mg/m ³	TWA: 150 mg/m ³	TWA: 147 mg/m ³	TWA: 1	50 mg/m ³	TWA: 50 ppm
	STEL: 1	100 ppm	STEL: 100 ppm	STEL: 100 ppm	STEL:	100 ppm	TWA: 150 mg/m ³
	STEL: 30	00 mg/m ³	STEL: 300 mg/m ³	STEL: 295 mg/m ³	STEL: 3	300 mg/m ³	STEL: 100 ppm
	S	Sk*	cute*	cute*	A	da*	STEL: 300 mg/m ³
Chemical name	Luxen	nbourg	Malta	Netherlands	No	orway	Poland
Tetrahydrofuran	Peau*		skin*	TWA: 100 ppm	TWA:	50 ppm	STEL: 300 mg/m ³
109-99-9	STEL: 1	100 ppm	STEL: 100 ppm	TWA: 300 mg/m ³	TWA: 1	50 mg/m ³	TWA: 150 mg/m ³
	STEL: 30	00 mg/m ³	STEL: 300 mg/m ³	STEL: 200 ppm	STEL	: 75 ppm	skóra*
	TWA:	50 ppm	TWA: 50 ppm	STEL: 600 mg/m ³	STEL: 18	87.5 mg/m ³	
	TWA: 15	50 mg/m ³	TWA: 150 mg/m ³	H*		H*	
Chemical name	Port	tugal	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: 15	50 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: 1	100 ppm	STEL: 100 ppm	K*	STEL:	100 ppm	STEL: 100 ppm
	STEL: 3	00 mg/m ³	STEL: 300 mg/m ³	Ceiling: 300 mg/m ³	STEL: 3	300 mg/m ³	STEL: 300 mg/m ³
	Cutâ	ânea*	P* Č			K* Č	vía dérmica*
Chemical name		Sv	veden	Switzerland		Uni	ted Kingdom
Tetrahydrofuran		NGV	: 50 ppm	TWA: 50 ppm		TV	VA: 50 ppm
109-99-9			150 mg/m ³	TWA: 150 mg/m	1 ³	TW	A: 150 mg/m ³
		Bindande k	KGV: 100 ppm	STEL: 100 ppm	า	STI	EL: 100 ppm
	E	Bindande K	GV: 300 mg/m ³	STEL: 300 mg/n	n ³	STE	L: 300 mg/m ³
			-	H* Č			Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulg	jaria	Croatia		Czech Republic
Tetrahydrofuran 109-99-9	-	-	-	-	2 mg/L - urir (Tetrahydrofura at the end of	an) - the	-
Chaminal name	Denmark	Fielend	Гис		work shift		
Chemical name	Denmark	Finland	Fra	nce	Germany DF		Germany TRGS
Tetrahydrofuran	-	-	-	-	2 mg/L (urine		2 mg/L (urine -
109-99-9					Tetrahydrofurar	n end	Tetrahydrofuran end
					of shift)		of shift)
					2 mg/L - BAT (e	end of	,
					exposure or er		
					shift) urine		
Chemical name	Hungary	Ireland	d	Italy	MDLPS		Italy AIDII
Tetrahydrofuran	2 mg/L (urine -	2 mg/L (u	rine -		-		2 mg/L - urine
109-99-9	Tetrahydrofuran end						ahydrofuran) - end of
	shift)	shift)				`	shift
	28 µmol/L (urine -	,					
	Tetrahydrofuran end						
	shift)						
Chemical name	Latvia	Luxembo	ourg	R	omania		Slovakia
Tetrahydrofuran	-	-	0		-		2 mg/L (urine -
109-99-9							ahydrofuran end of
							osure or work shift)
Chemical name	Slovenia	Spair	1	Sw	ritzerland	· · ·	Jnited Kingdom

Tetrahydrofuran 109-99-9	(Tetrahydro	L - urine ıfuran) - at the e work shift	2 mg/L (urine - Tetrahydrofuran end of shift)	2 mg/L (urine - Tetrahydrofuran end of shift) 27.7 µmol/L (urine - Tetrahydrofuran end of shift)	-	
Derived No Effect Level (Predicted No Effect Conc (PNEC)		No informatic No informatic				
8.2. Exposure controls						
Engineering controls		Showers Eyewash stat Ventilation sy				
Personal protective equip	pment					
Eye/face protection	e protection Tight sealing		ling safety goggles. Face protection shield.			
Hand protection			act glove manufacturer for recommendations. Gloves must conform to standard EN Near suitable gloves. Impervious gloves.			
Skin and body protection			6529. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant ntistatic boots.			
Respiratory protection	ory protection No protective equipment is needed under normal use conditions. If exposure limit exceeded or irritation is experienced, ventilation and evacuation may be required					
General hygiene conside	erations	Do not eat, drink or smoke when using this product. Contaminated work clothing sho be allowed out of the workplace. Regular cleaning of equipment, work area and cloth recommended. Wash hands before breaks and immediately after handling the produc 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-			vork area and clothing is handling the product. d eye/face protection.	
Environmental exposure	mental exposure controls No information					

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear Liquid	
Color	Clear	
Odor	Pungent Sweet Ether-like odor	
Odor threshold	No information available	
Property_	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known

No data availab
No data availab
No data availab
No data availab
Completely solu
No data availab
No data availab
No data availab
0.91g/mL
No data availab
No data availab
No data availab
No information
No information

ble ble ble ble luble ble ble ble ble ble ble available available

(1-Methylimidazole) No information available None known None known None known None known None known None known None known

None known

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 impac Sensitivity to static discharge	t None. Yes.
10.3. Possibility of hazardous reacti	ons
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 pro	ducts_
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. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
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)	1,540.90 mg/kg
ATEmix (dermal)	1,768.50 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

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		
Tetrahydrofu	iran	Carc. 2		
Reproductive toxicity	No information available.			
STOT - single exposure	May cause respiratory irrit	ation.		
STOT - repeated exposure	No 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 toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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

<u>IATA</u>

	_	
	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	
S	pecial Provisions	None
IMDO	<u>}</u>	
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	
S	pecial Provisions	None
E	mS-No.	F-E, S-C
14.7	Maritime transport in bulk	No information available
	rding to IMO instruments	
	-	

RID	
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
ADR	
ADR 14.1 UN number or ID number	Not regulated
	Not regulated Not regulated
14.1 UN number or ID number	U U
14.1UN number or ID number14.2UN proper shipping name	Not regulated
14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)	Not regulated Not regulated
14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group	Not regulated Not regulated Not regulated
14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards	Not regulated Not regulated Not regulated

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
EINECS/ELINCS	Listed or exempt
ENCS	Listed or exempt
IECSC	Listed or exempt
KECI	Listed or exempt
PICCS	Listed or exempt
AIIC	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

TWĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

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

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