SAFETY DATA SHEET



HEPTANE

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

1.1 Product identifier:	
CAS Number:	142-82-5
EC number:	205-562-8
1.2 SYNONYMS:	Heptane
	n-heptane

SECTION 2: Hazards identification:

	1
2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2) Aspiration hazard (Category 1) Skin corrosion/irritation (Category 2) Specific target organ toxicity – Single exposure (Category 3) Hazardous to the aquatic environment – Acute Hazard (Category 1) Hazardous to the aquatic environment – Chronic Hazard, (Category 1 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	 H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness.



	YOUR CHEMI
	H410: Very toxic to aquatic life with
	long lasting effects
Precautionary Statements:	P210: Keep away from heat, hot
Treatment Statements.	surfaces, sparks, open flames and
	1
	other ignition sources. No smoking.
FOTD	P233: Keep container tightly closed.
	P240: Ground and bond container
LOID	and receiving equipment.
	P241: Use explosion-proof
	electrical/ventilating/lighting
	equipment.
	P260: Do not breathe
	dust/fume/gas/mist/vapours/spray.
	P264: Wash hands, forearms and
	face thoroughly after handling.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation,
	dizziness, headaches, nausea, and,
	with prolonged exposure, central
	nervous system depression or liver
	and kidney damage
Ingestion:	can cause nausea, vomiting,
ingestion.	abdominal pain, dizziness, and
	potentially lead to central nervous
	system depression or damage to
	the gastrointestinal tract.
Skin Contact:	can cause irritation, dryness,
	redness, and defatting of the skin,
	potentially leading to dermatitis
	with prolonged or repeated
	exposure.
Eye contact:	can cause irritation, redness,
MAILINE OF HEWIT	tearing, and a burning sensation,
I O O II O II L IVI I C	with potential for more severe
	damage if exposure is prolonged.
Chronic Evacuus:	
Chronic Exposure:	can lead to neurological effects
	such as dizziness, headaches,
	memory impairment, and
	coordination problems, as well as
	potential liver and kidney damage.
Aggravation of pre-existing	can aggravate pre-existing
conditions:	conditions such as respiratory
	disorders (e.g., asthma) and skin



conditions (e.g., dermatitis), as well
as potentially worsen neurological
conditions in sensitive individuals.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 142-82-5 HEPTANE
Identification number(s):	EC number: 205-562-8

SECTION 4: First aid measures

4.1 Description of first aid	
4.1 Description of first aid measures	
lileasures	
General information:	
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give
	artificial respiration. Do not apply
	mouth-to-mouth resuscitation.
	Consult a physician
After skin contact:	Remove contaminated clothing.
	Wash with soap and water. Rinse
	skin with water/shower. Consult a
Afterene	physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes
	Remove contact lenses, if present
	and easy to do. consult a physician.
After swallowing:	Rinse mouth with water.
, a.c. swameving.	Immediately after ingestion. Give
VOLD CHEMIC	little of water to drink. Do not
YUUR CHEMIL	induce vomiting. Never give
	anything by mouth to an
	unconscious person. Consult a
	physician.
4.2 Most important symptoms	acute symptoms like respiratory
and effects, both acute and	distress, skin irritation, nausea, and
delayed:	eye damage, with delayed effects
	such as chronic lung disease,
	neurological impairment, and an
	increased risk of cancer.



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

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam. Dry
	chemical.
5.2 Special hazards arising from	Highly flammable liquid and
the substance or mixture:	vapour. Toxic fumes may be
	released. Carbon oxides (CO, CO2)
5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device .
	Cool tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
NUILD LITEWIL	drains.
6.3 Methods and material for	Take up liquid spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
	return in its original container.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling.



SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate
7.11 recautions for safe flatialing.	ventilation.
	Take precautions as Residual
	vapours are flammable.
	Empty containers pose a fire risk,
- FC111	evaporate the residue under a
LOID.	fume hood. Ground all equipment
	containing material
	Do not use in confined spaces.
	Electrostatic discharge protection.
	Minimize dust generation and
	accumulation.
	Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area.
	Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
	leaks.
	Store in a dry and dark area
	Provide for a tub to collect spills.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.



Personal protective equipment: General protective and hygienic measures:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc. Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	liquid
Colour:	colourless
Odour:	Strong odour resembling as
WOULD OULD NOT	petroleum or gasoline.
pH-value:	No data available
Melting point/Melting range:	-91°C
Boiling point/Boiling range:	98°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	285°C
Decomposition temperature:	No data available
Self-igniting:	Not applicable
Flash point:	-4°C
Danger of explosion:	Not applicable
Explosion limits: Lower:	1.1%
Explosion limits: Upper:	6.7%



Vapour pressure:	6.09 kPa at 25°C
Density at 20 °C:	0.69
Relative density:	0.69
Vapour density:	3.5
Evaporation rate:	4
Solubility in / Miscibility with-	Insoluble
·water at 20 °C:	
Partition coefficient:(n-	4.66
octanol/water)	
Viscosity:	0.641 mm ² /s at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Highly flammable liquid and vapour
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	AL DADTMED
Acute Toxicity:	LD50 (Oral, Rat) : 5000 mg/kg
	LD50 (Dermal, Rabbit) : 2000
	mg/kg
	LC50 (Inhalation Rat) : 103 mg/m ³
Skin corrosion/Irritation:	Causes severe skin irriation and
	burns
Serious eye damage/irritation:	Causes severe irritation
	and burns of the eyes.
Respiratory damage/irritation:	Harmful if inhaled. Causes
	chemical burns to the respiratory
	tract.



Ingestion:	Harmful if swallowed. Causes
	gastrointestinal tract burns
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	May cause drowsiness or dizziness.
single exposure:	19/0
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	May be fatal if swallowed and
	enters airways.
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Moderately biodegradable.

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): 5,738 mg/l EC50(daphnia magna): 1.5mg/l
Aquadio toxiologi	LOEC(daphnia magna): 0.32 mg/l (21d)
	NOÉC(daphnia magna): 0.17 mg/l (21d)
12.2 Persistence and	moderately biodegradable.
degradability:	
12.3 Bioaccumulative potential:	Low
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soap and Water, Absorbent materials, Detergents or degreasers, Alcohol-based cleaners or acetone.



SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	UN 1206
IMDG, IATA:	LIEDTANIEC
14.2 UN proper shipping name ·	HEPTANES
ADR, ADN, IMDG, IATA:	_
14.3 Transport hazard class(es) ·	3
ADR, ADN, IMDG, IATA	1076
14.4 Packing group · ADR, IMDG,	2 0 1 0
IATA:	
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Transport by sea
	Limited quantities (IMDG):1 L
	Excepted quantities (IMDG): E2
	Packing instructions (IMDG): P001
	IBC packing instructions (IMDG):
	IBC02
	Tank instructions (IMDG) : T4
	Tank special provisions (IMDG):
	TP2
	EmS-No. (Fire): F-E
	EmS-No. (Spillage) : S-D
	Stowage category (IMDG) : B
	Properties and observations
	(IMDG) : Colourless, volatile liquids.
	Explosive limits: 1.1% to 6.7% n-
	HEPTANE: flashpoint -4°C c.c.
	Immiscible with water. Irritating to
	skin, eyes and mucous
	membranes.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific	Directive 2012/18/EU, under that this substance is classified in listed substance as flammable liquids.
for the substance or mixture Directive 2012/18/EU	
Named dangerous substances:	This substance is listed in the part 2 annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.



SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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