SAFETY DATA SHEET



NITROMETHANE

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

1.1 Product identifier:	
CAS Number:	75-52-5
EC number:	200-873-7
1.2 SYNONYMS:	Methyl nitrate
	 Nitromethyl
	Nitromethane

SECTION 2: Hazards identification:

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: Hazard Pictograms:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids, (Category 3) Acute toxicity, Oral (Category 4) Acute toxicity, inhalation. (Category 4) Carcinogenicity, (Category 2) Reproductive toxicity, (Category 2) 2)
Signal Word:	Danger
Hazard statements:	H226: Flammable liquid and vapor. H302 + H332: Harmful if swallowed or if inhaled. H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child.
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood.



	P210: Keep away from heat, hot
	surfaces, sparks, open flames and
	other ignition sources. No smoking.
	P233: Keep container tightly closed.
	P301 + P312: IF SWALLOWED: Call a
	POISON CENTER/ doctor if you feel
-511	unwell.
LOIL	P304 + P340 + P312: IF INHALED:
	Remove person to fresh air and
	keep comfortable for breathing. Call
	a POISON CENTER/ doctor if you feel
	unwell.
	P308 + P313: IF exposed or
	concerned: Get medical advice/
	attention.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation,
	dizziness, headaches, and in severe
	cases, central nervous system
In an ation	depression.
Ingestion:	can cause nausea, vomiting,
	abdominal pain, dizziness, and in severe cases, toxicity to the liver and
	kidneys.
Skin Contact:	can cause irritation, redness, and
Skiii Gontagu.	drying, and prolonged exposure
	may lead to chemical burns or
	dermatitis.
Eye contact:	can cause irritation, redness, pain,
	and potential damage to the
	cornea, leading to blurred vision.
Chronic Exposure:	may lead to nervous system
VOUR CHEM	damage, liver and kidney
TOUN UILIVI	dysfunction, and increased risk of
	cancer due to its toxic and
	potentially carcinogenic properties.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	respiratory conditions (such as
	asthma or bronchitis), liver and
	kidney diseases, or central nervous
	system disorders.



SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 75-52-5
	NITROMETHANE
Identification number(s):	EC number: 200-873-7

SECTION 4: First aid measures

	1
4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms	Acute symptoms include
and effects, both acute and	respiratory irritation, dizziness,
YOUR CHEMI	nausea, and headache, while delayed effects may involve liver and kidney damage, nervous system disorders, and potential carcinogenic effects with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.



SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Carbon oxides, nitrogen oxides.
the substance or mixture:	
5.3 Advice for firefighters:	Wear fully protective suit, safety
-511	glasses and respiratory device. Cool
LOID	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
	drains.
6.3 Methods and material for	Take up 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
AUIID CHEWI	an excess of water. Wash clothing
TUUN GHEWH	and equipment after handling.



SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate
The second contraction of the second contrac	ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
	containing material
E2111	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.
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.



General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. Respiratory protection: Required.
Protection of hands: ESTD	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:	Oily Liquid
Colour:	Colourless
Odour:	Slightly sweet
pH-value:	7
Melting point/Melting range:	-29.5°C
Boiling point/Boiling range:	101.1°C
Flammability (solid, gaseous):	Highly Flammable
Ignition temperature:	390°C
Decomposition temperature:	200°C
Self-igniting:	None
Flash point:	6°C
Danger of explosion:	None
Explosion limits: Lower:	2.5%
Explosion limits: Upper:	36%
Vapour pressure:	3.4 kPa (at 20 °C)



Density at 20 °C:	1.132 g/cm ³
Relative density:	1.132
Vapour density:	2.0
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Soluble
·water at 20 °C:	4070
Partition coefficient:(n-	0.35
octanol/water)	11010
Viscosity:	0.37 cP at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	No reaction under normal
	conditions.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Can cause Hazardous reactions
reactions	when comes into contact with
	strong acids, strong bases, or
	oxidizing agents.
10.4 Conditions to avoid	Heat, flame, sparks, shocks.
10.5 Incompatible materials	Strong oxidizing agents, strong
	acids and bases, strong reducing
	agents.
10.6 Hazardous decomposition	Nitrogen oxides, carbon oxides.
products	

SECTION 11: Toxicological information

11.1 Information on toxicological effects	CAL PARTNEE
Acute Toxicity:	LD50 (Oral, Rat): 1.478 mg/kg
_	LD50 (Dermal, Rabbit): 2.000
	mg/kg
	LC50 (Inhalation Rat): 14.34 mg/l
	(4hr)
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available



Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer
Reproductive toxicity:	Suspected of damaging the
FOTE	unborn child
Specific target organ toxicity -	No data available
single exposure:	11010
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Not Biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): 659 mg/l (96 hr) EC50(daphnia): 103 mg/l (48 hr) ErC50(algae): 102 mg/l (72 hr)
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	low bioaccumulative
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	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Soapy Water, Isopropyl alcohol,
	acetone, activated carbon.



SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	1261
IMDG, IATA:	
14.2 UN proper shipping name ·	NITROMETHANE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	3
ADR, ADN, IMDG, IATA :	1076
14.4 Packing group · ADR, IMDG,	2
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substance as flammable liquid.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

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.