SAFETY DATA SHEET



2,2-DIMETHOXYPROPANE

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

1.1 Product identifier:	
CAS Number:-	77-76-9
EC number:	201-056-0
1.2 SYNONYMS:	Acetal of acetone2,2-Dimethoxypropane
	Dimethoxypropane2,2-Dimethoxypropane-1Propane-2,2-dimethoxy

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:	Labelling according to Regulation (EC) No 1272/2008
	Flammable liquids, (Category 2) Eye irritation, (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H225: Highly flammable liquid and
	vapor. H319: Causes serious eye irritation.
Precautionary Statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use non-sparking tools.



	P305 + P351 + P338: IF IN EYES:
	Rinse cautiously with water for
	several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing.
	P405: Store locked up.
	P501: Dispose of contents/ container
	to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, headaches, or nausea, and prolonged exposure may lead to more severe effects.
Ingestion:	can cause symptoms such as nausea, vomiting, abdominal pain, and gastrointestinal irritation.
Skin Contact:	may cause irritation, redness, or dryness, and prolonged exposure
	could lead to more severe skin
	reactions.
Eye contact:	can cause irritation, redness, tearing, and a burning sensation.
Chronic Exposure:	may lead to respiratory issues, skin damage, or liver and kidney effects, depending on the duration and level of exposure.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	respiratory conditions, such as
	asthma or bronchitis, and could
	worsen skin disorders like
	dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 77-76-9 2,2-
	DIMETHOXYPROPANE
Identification number(s):	EC number: 201-056-0



SECTION 4: First aid measures

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
	immediately. 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.
Arter swanowing.	Immediately after ingestion. If
	conscious, make victim drink two
	glasses at most immediately. Never
	give anything by mouth to an
	unconscious person. Do not induce
	vomiting. Consult a physician.
4.2 Most important symptoms	
4.2 Most important symptoms	The most important symptoms
and effects, both acute and	include respiratory irritation,
delayed:	nausea, and skin or eye irritation,
	while delayed effects may include
	prolonged respiratory issues or skin
	damage with chronic exposure.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

SECTION 5: Firefighting measures

Carbon dioxide. Alcohol-resistant
foam.
Do NOT use water spray
May release toxic fumes on
decomposition.



5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device.
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 containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate
	ventilation.
	Empty containers pose a fire risk,
TUUN UNLIVI	evaporate the residue under a
	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
FOTE	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.
	Do not handle in flammable
	atmospheres.
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

A system of local and general
exhaust is recommended.
Handle in accordance with good
industrial hygiene and safety
practice. Wash hands before
breaks and at the end of workday.
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 to light yellow
Odour:	Mild, ether like
pH-value:	No data available
Melting point/Melting range:	-97°C
Boiling point/Boiling range:	95°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	350°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	10°C
Danger of explosion:	None
Explosion limits: Lower:	1.3%
Explosion limits: Upper:	17.5%
Vapour pressure:	20.5 mmHg at 20°C
Density at 20 °C:	0.876 g/cm ³
Relative density:	0.88
Vapour density:	3.3
Evaporation rate:	No data available



Solubility in / Miscibility with-	slightly Soluble
·water at 20 °C:	
Partition coefficient:(n-	No data available
octanol/water)	
Viscosity:	0.55 cP at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Can react with water to undergo
	hydrolysis reaction to form acetone
	and methanol.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	No data available
reactions	
10.4 Conditions to avoid	High temperatures, Heat, flames
10.5 Incompatible materials	Strong oxidizing agents, strong
	acids and bases, water.
10.6 Hazardous decomposition	Carbon monoxide, carbon dioxide,
products	methanol.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 2.260 mg/kg
	LD50 (Dermal, Rabbit): 2.100 mg/kg
	LC50 (Inhalation Rat): no data
	available
Skin corrosion/Irritation:	Slight irritation
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	



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	4070
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): no data available
Aquatic toxicity:	EC50(daphnia): 100 mg/l (48 hr)
	ErC50(algae): no data available
12.2 Persistence and	Readily Biodegradable
degradability:	
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:	Isopropyl alcohol, acetone.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	1993
IMDG, IATA:	
14.2 UN proper shipping name ·	2,2-DIMETHOXYPROPANE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	3
ADR, ADN, IMDG, IATA :	
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 environmental	Directive 2012/18/EU, under that 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
E911	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.

YOUR CHEMICAL PARTNER