SAFETY DATA SHEET



ITACONIC ACID

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

1.1 Product identifier:	
CAS Number:	97-65-4
EC number:	202-599-6
1.2 SYNONYMS:	Methylidenesuccinic acid2-Methylidenesuccinic acid
	2-Butenedioic acid

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 Serious eye damage (Category 1)
Signal Word:	Warning
Hazard statements: Precautionary Statements:	H318: Causes serious eye damage. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for
YOUR CHEMI	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:	may cause respiratory irritation, coughing, and difficulty breathing.
Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	may cause gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Eye contact:	may cause irritation, redness, and watering of the eyes.
Chronic Exposure:	may lead to respiratory issues, skin sensitization, and prolonged irritation to the eyes or mucous membranes.
Aggravation of pre-existing conditions:	Aggravation of pre-existing conditions such as asthma, respiratory disorders, or skin sensitivities.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 97-65-4 ITACONIC
	ACID
Identification number(s):	EC number: 202-599-6

SECTION 4: First aid measures

4.1 Description of first aid measures	
VOLD CLEMI	CVI DVBINED
General information:	UALTANINLI
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give
	artificial respiration. Consult a
	physician.



After skin contact: After eye contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician. Immediately flush eyes with plenty
FOTO	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 and effects, both acute and delayed:	The most important symptoms include acute respiratory irritation, eye redness, and gastrointestinal discomfort, with potential delayed effects like chronic respiratory issues or skin sensitization.
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	include the potential for dust
the substance or mixture:	formation, which may pose a
	respiratory hazard, and its corrosive
	properties that can cause irritation
	to the skin, eyes, and mucous
VOUD OUT MI	membranes.
5.3 Advice for firefighters:	Wear fully protective suit, safety
10011 OIILMI	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, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
E211	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. 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 ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
	containing material
	Do not use in confined spaces.
VOLD CHEMI	Electrostatic discharge protection.
YUUK GHEWI	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.
LOID	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: YOUR CHEMI	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	TY/h
and chemical properties	11010
General Information	
Appearance: Form:	Crystalline Solid
Colour:	White
Odour:	Slightly acidic
pH-value:	3.5
Melting point/Melting range:	166°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Flammable solid
Ignition temperature:	300°C
Decomposition temperature:	200°C
Self-igniting:	None
Flash point:	Not determined
Danger of explosion:	None
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	Not determined
Density at 20 °C:	1.57 g/cm ³
Relative density:	1.57
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with-	Highly soluble
·water at 20 °C:	
Partition coefficient:(n-	0.53
octanol/water)	CAL DADINED
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	May react with strong oxidizers.
10.2 Chemical stability	This chemical is stable under
	storage conditions.



10.3 Possibility of hazardous reactions	may react with strong oxidizing agents, which could lead to fire or explosive hazards.
10.4 Conditions to avoid	Heat, flame, strong bases, oxidizing
	agents, or metals.
10.5 Incompatible materials	Strong oxidizing agents, Strong
	acids or bases,
10.6 Hazardous decomposition	carbon monoxide, carbon dioxide.
products	

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 1350 mg/kg LD50 (Dermal, Rabbit): no data available
	LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Can cause serious eye damage
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 - single exposure:	No data available
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	LAL PAKINER
information	
Biodegradability:	Biodegradable in aerobic
	environments.



SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 196 mg/l (24hr)
Aquatic toxicity:	EC50(daphnia): 200 mg/l (24hr)
	EC50(algae): 47 mg/l (72hr)
12.2 Persistence and	Biodegradable in aerobic
degradability:	environments.
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:	Water, Mild Detergents or Soaps,
	sodium bicarbonate, Isopropyl
	Alcohol.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	3077
IMDG, IATA:	
14.2 UN proper shipping name ·	ITACONIC ACID
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	9
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	No
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 not classified in
regulations/legislation specific	listed substance
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 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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