SAFETY DATA SHEET

WULT CHEMICAL PARTNER

GLYOXAL 40%

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

1.1 Product identifier:	
CAS Number:	107-22-2
EC number:	203-474-9
1.2 SYNONYMS:	EthandialGlyoxaldehyde
	• 1,2-Ethanedial
	DialdehydeGlyoxal Solution
	Acetaldehyde, glycol
	Oxalaldehyde
	Acetaldehyde dialdehyde
	Ethylene dialdehyde

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 Acute toxicity (inhalation) (Category 3) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2) Skin sensitisation (Category 1B) Germ cell mutagenicity (Category 2)
Signal Word:	Danger



Hazard statements:	H315 - Causes skin irritation.
Hazard statements:	
	H317 - May cause an allergic skin
	reaction.
	H319 - Causes serious eye irritation.
	H331 - Toxic if inhaled.
	H341 - Suspected of causing genetic
	defects.
Precautionary Statements:	P261: Avoid breathing dust, fume,
	gas, vapours, spray, mist.
	P280: Wear protective clothing,
	protective gloves, eye protection,
	face protection.
	P305+P351+P338: IF IN EYES: Rinse
	cautiously with water for several
	minutes. Remove contact lenses, if
	present and easy to do. Continue
	rinsing.
	P311: Call a POISON CENTER/doctor
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation,
	coughing, shortness of breath, and
	potentially severe damage to the
	respiratory tract.
Ingestion:	may cause severe irritation or burns
	to the mouth, throat, and
	gastrointestinal tract, leading to
	nausea, vomiting, abdominal pain,
	and potentially life-threatening
	damage.
Skin Contact:	may cause irritation, redness, and
Skiii Coiitact.	burns, and prolonged exposure can
	, , ,
Evolution C I I I	lead to more severe tissue damage.
Eye contact:	can cause severe irritation, redness,
TOOK OILLING	pain, and potentially permanent
	damage to the cornea and eye
	tissues.
Chronic Exposure:	may lead to respiratory sensitization,
	skin sensitization, and long-term
	irritation of the eyes, skin, and
	respiratory system, potentially
	increasing the risk of allergic
	1 2 2 3



	reactions or more severe health effects over time.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as asthma, bronchitis, skin conditions (e.g.,
FSTI	eczema), or other respiratory and allergic disorders.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 107-22-2 GLYOXAL 40%
Identification number(s):	EC number: 203-474-9

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. 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. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include respiratory irritation, coughing, eye and skin irritation, while delayed effects may involve persistent



	respiratory issues, skin
	sensitization, and potential long-
	term damage to the eyes or lungs.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	4070

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	carbon oxides and hydrogen
the substance or mixture:	chloride gas
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, 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. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions: 6.3 Methods and material for	Do not enter this chemical into drains. 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
an excess of water. Wash clothing
and equipment after handling.

SECTION 7: Handling and storage

Figure 11.	Fancia in analytica i
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.
	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
VOUD OUTS	upright to prevent leakage.
7.3 Specific end uses:	no data available
TOUL OHLINE	



SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
•	A
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	Eyes, body and hand protection,
	maintain indoor air unobstructed.
measures:	
	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.
	ag.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Colourless liquid
Colour:	Colourless to pale yellow
Odour:	Pungent
pH-value:	4.5



Melting point/Melting range:	-16.6°C
Boiling point/Boiling range:	151°C
Flammability (solid, gaseous):	Highly flammable
Ignition temperature:	315°C
Decomposition temperature:	No data available
Self-igniting:	Not applicable
Flash point:	65°C
Danger of explosion:	Not explosive
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	0.25 hPa (at 20 °C)
Density at 20 °C:	1.16 g/cm ³
Relative density:	1.16
Vapour density:	2.35
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Completely soluble
·water at 20 °C:	
Partition coefficient:(n-	-0.41
octanol/water)	
Viscosity:	1.5 to 2.5

SECTION 10: Stability and reactivity

10.1 Reactivity	Highly reactive
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Polymerization, amines, alcohols,
reactions	Reaction with reducing agents,
	Flammable vapors.
10.4 Conditions to avoid	Heat, light, moisture, alkalies,
VOUD OUEMI	oxidizing agents, reducing agents.
10.5 Incompatible materials	Strong oxidizing agents, strong
10011 OIILMI	bases, reducing agents, Ammonia
	and amines.
10.6 Hazardous decomposition	Carbon oxides, Aldehydes.
products	



SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 300 mg/kg LD50 (Dermal, Rabbit): 1000 mg/kg LC50 (Inhalation Rat): 3.5 mg/l (4hr)
Skin corrosion/Irritation:	Cause skin irritation
Serious eye damage/irritation:	Causes eye irritation
Respiratory damage/irritation:	May cause allergic reaction.
Ingestion:	No data available
Germ cell mutagenicity:	Suspected of causing genetic defects.
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	partially biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 65 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): 30 mg/l (48 hr)
	EC50(algae): 12 mg/l (72 hr)
12.2 Persistence and	Highly biodegradable
degradability:	
12.3 Bioaccumulative potential:	low bioaccumulative .
12.4 Mobility in soil:	Moderate 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, isopropyl alcohol, sodium bicarbonate, and commercial cleaners.
EO IL	commercial cleaners.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	2920
IMDG, IATA:	
14.2 UN proper shipping name ·	GLYOXAL
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	8
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	Yes, toxic to aquatic life.
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 and
for the substance or mixture	corrosive.
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been
VOUD CUEMI	carried out under REACH
YUUK UHEIVI	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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