# SAFETY DATA SHEET



# **1,2,4- TRIAZOLE**

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

1.1 Product identifier:	
CAS Number:	288-88-0
EC number:	206-022-9
1.2 SYNONYMS:	Triazole
	• 1,2,4-Triazol
	• 1,2,4-Triazole ring
	Triazole derivative

### **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 Acute toxicity, Oral (Category 4) Eye irritation (Category 2) Reproductive toxicity (Category 1B) Aquatic Toxicity – Category 1
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:  YOUR CHEM	H302: Harmful if swallowed H332: Harmful if inhaled H312: Harmful in contact with skin H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long-lasting effects H361f: Suspected of damaging fertility H373: May cause damage to organs through prolonged or repeated exposure



Due continue m. Claire manifest	<b>D202</b> , D = 11 + 12 - 12   12   12   13   14   15
Precautionary Statements:	<b>P202:</b> Do not handle until all safety
	precautions have been read and understood.
	<b>P264;</b> Wash skin thoroughly after
	handling.
	<b>P280:</b> Wear protective gloves/
FCTI	protective clothing/ eye protection/
E311	face protection.
	<b>P301 + P312:</b> IF SWALLOWED: Call a
	POISON CENTER/ doctor if you feel
	unwell.
	<b>P305 + P351 + P338:</b> IF IN EYES:
	Rinse cautiously with water for
	several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing.
	<b>P308 + P313:</b> IF exposed or
	concerned: Get medical advice/
	attention.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, and
	prolonged or repeated exposure
	could lead to adverse health effects.
Ingestion:	may cause harm, leading to
	symptoms such as nausea,
	vomiting, and potential damage to internal organs.
Skin Contact:	may cause irritation, and prolonged
JAIII COILLOCK	exposure could result in harmful
	effects or absorption through the
	skin.
Eye contact:	may cause irritation, leading to
VOUD CHEMI	redness, discomfort, and potential
TUUK GHEWI	damage to the eye tissue.
Chronic Exposure:	may lead to long-term health
	effects, including damage to organs,
	reproductive toxicity, or adverse
	effects on the nervous system and
	respiratory system.



Aggravation of pre-existing	may aggravate pre-existing
conditions:	conditions such as respiratory
	disorders, liver or kidney disease,
	and skin sensitivities

# SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 288-88-0 1,2,4-
	TRIAZOLE
Identification number(s):	EC number: 206-022-9

### **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:  YOUR CHEM	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. If conscious, make victim drink two glass of water immediately. Do not induce vomiting. Consult a physician.



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 involve
	organ damage, reproductive
FOTD	toxicity, and long-term
	environmental impact.
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.
5.2 Special hazards arising from	No data available
the substance or mixture:	
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	Use personal protective equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
VOUD OUTIN	Evacuate personnel to safe areas.
AUTHORI, HEWI	Beware of vapours accumulating
I U U II U II L IVI I	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
FOTD	return in its original container.
	Clean contaminated surfaces with
EOID	an excess of water. Wash clothing
	and equipment after handling.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling:	Work under hood.
	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
-VOHD OHEM	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,
Processing of an Principal	wearing anti chemical gloves,
	rubber gloves, etc.
Canaral protective and hygionic	
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	<b>Respiratory protection:</b> 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	UAL FANINEI
Appearance: Form:	Powder
Colour:	White
Odour:	Odourless
pH-value:	6



Melting point/Melting range:	121°C
Boiling point/Boiling range:	230°C
Flammability (solid, gaseous):	Non- flammable.
Ignition temperature:	370°C
Decomposition temperature:	250°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	0.03 Pa at 20°C
Density at 20 °C:	1.34 g/cm <sup>3</sup>
Relative density:	1.34
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Soluble
-water at 20 °C:	
Partition coefficient:(n-	-0.61
octanol/water)	
Viscosity:	Not determined

# **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 decompose when contact with
reactions	strong acids, strong oxidizing
	agents.
10.4 Conditions to avoid	Strong heating.
10.5 Incompatible materials	Strong acids, strong oxidizing
	agents.
10.6 Hazardous decomposition	nitrogen oxide, ammonia, carbon
products	dioxide.



# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute Toxicity:	<b>LD50</b> (Oral, Rat): 1320 mg/kg
	<b>LD50</b> (Dermal, Rabbit): no data
FOTD	available
-511	LC50 (Inhalation Rat): no data
EUID	available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Can cause eye irritation.
Respiratory damage/irritation:	No data available
Ingestion:	Can cause irritation.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	Suspected of damaging unborn
	fertility
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	May cause organ damage.
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	low Biodegradable

# **SECTION 12: Ecological information**

12.1 Toxicity	LC50(fish): 97 mg/l (96 hr)
Aquatic toxicity:	EC50(daphnia): 494 mg/l (48 hr)
	ErC50(algae): 45 mg/l (72 hr)
12.2 Persistence and	low Biodegradable
degradability:	I, AI PAKINER
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, soapy water, isopropyl
	alcohol, commercial spill cleaning
	kits, Acid or Base Neutralizers.

### **SECTION 14: Transport information**

14.1 UN-Number · ADR, ADN,	2811
IMDG, IATA:	
14.2 UN proper shipping name ·	1,2,4- TRIAZOLE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	6.1
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	Yes, harmful 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 toxic and harmful for
for the substance or mixture	aquatic life.
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
VOLD CHEMI	carried out under REACH
YUUK GHEWI	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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