

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: 1,2,4-TRIAZOLE
CAS#: 6138-23-4
C.I. No.: Not available.
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula: C₁₂H₂₂O₁₁.2H₂O

Composition and Information on Ingredients

Name	S.K.U	% by Weight
1,2,4-TRIAZOLE	GCS-8768	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation

(EC) No 1999/45 Classification :

Repr. Cat. 3; R63

Xn; R22

Xi; R36

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Reproductive toxicity - Unborn Child - Category 2 -
Warning (CLP : Repr. 2) H361
Eye irritation - Category 2A - Warning (CLP : Eye
Irrit. 2) H319 Acute toxicity, Oral - Category 4 -
Warning (CLP : Acute Tox. 4) H302

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation

Assure fresh air breathing. Allow the victim to rest.

Skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

Ingestion :

Obtain emergency medical attention. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

Suspected of damaging the unborn child. Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.

Fire and Explosion Data

Extinguishing media

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,

Including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject)

Fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency

procedures For emergency responders with proper protection.	: Equip cleanup crew
	Ventilate area.
	Avoid breathing dust, fume, gas, mist, vapours, spray.
For non-emergency personnel	: Evacuate unnecessary personnel.
Environmental precautions	
Environmental precautions	: Prevent entry to sewers and public waters.
Notify authorities if	product enters sewers or public waters.
Methods and materials for containment and cleaning up	
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.
Handling and Storage	
Precautions for safe handling	
Handling	: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use.
Technical protective measures prevent formation of	: Provide good ventilation in process area to Vapor.
Conditions for safe storage, including any incompatibilities	
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from ignition. Direct sunlight.	: Strong bases. Strong acids. Sources of
Specific end uses	
Specific end use(s)	: None.
Exposure Controls/Personal Protection	
Personal protection	: Avoid all unnecessary exposure.
• <u>Respiratory protection</u>	: <u>Wear approved mask.</u>
• <u>Hand protection</u>	: <u>Wear protective gloves.</u>
• <u>Eye protection</u>	: <u>Chemical goggles or safety glasses.</u>
• <u>Others</u>	: <u>When using, do not eat, drink or smoke.</u>
Control parameters	
Occupational Exposure Limits	: No data available.

Physical and Chemical Properties

Information on basic physical and chemical properties Physical state at 20 °C

	: Solid.
Color	: White crystalline
Odor	: N/A
Odor threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 119 - 121 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C] : N/A	
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1) : N/A	
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A
Molecular Weight	: 69.09

Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidizing properties	: No data available.

Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of
hazardous
reactions

Hazardous
reactions : Not
established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Toxicological Information

Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

• Inhalation : Based on available data, the classification criteria are not met.

• Dermal : Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Suspected of damaging the unborn child.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

Ecological Information

Toxicity
Toxicity information : Not established.

Persistence – degradability
Persistence - degradability : Biodegradable.

Bio accumulative potential
Bio accumulative potential : Not established.

Mobility in soil
Mobility in soil : Not established.

Results of PBT and vPvB assessment
Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects
Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste treatment methods
General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Transformation Information

Land transport (ADR-RID)
General information : Not regulated.

Sea transport (IMDG) [English only]
General information : Not regulated.

Air transport (ICAO-IATA) [English only]
General information : Not regulated.

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental: Ensure all national/local regulations are observed.
Regulations/legislation specific for The substance or mixture

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorization - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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