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# Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision:

Date of Revision : 21.12.2021

# 1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number GRM470

Product Name 2,3,5-Triphenyltetrazolium chloride, Hi-AR™

CAS No.: 298-96-4 EC No.: 206-071-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

**1.2.1** Relevant identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Produced by HiMedia Laboratories Private Limited

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1.4 Emergency Tel. No.

Emergency Tel. No. Please contact the regional HiMedia representation in your country

#### 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

# CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Skin corrosion or irritation, (Category 2), H315

Serious eye damage or eye irritation, (Category 2A), H319

Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335

# 2.2 Label elements

# Labeling according to Regulation (EC) No.1272/2008



Pictogram

Signal word Warning

Hazard Statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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#### 2.3 Other Hazards

none

# **3** Composition/Information On Ingredients

#### 3.1 Substances

Synonym Tetrazolium salt, Hi-AR™; TTC

 $\begin{array}{lll} \mbox{Molecular Formula:} & \mbox{$C_{19}$H}_{15}\mbox{N}_4\mbox{Cl} \\ \mbox{Molecular Weight:} & 334.80 \\ \mbox{CAS No.:} & 298-96-4 \\ \mbox{EC No.:} & 206-071-6 \end{array}$ 

Component		Classification	Concentration
2,3,5-Triphe	nyltetrazolium chlo	oride, Hi-AR™	
CAS No.:	298-96-4	As Per EC Regulation 1272/2008	100%
EC No.:	206-071-6	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

#### 4 First Aid Measures

# 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

# If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# *In case of skin contact*

Wash with plenty of soap and water. Consult a physician.

# In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

# If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

#### 4.3 Indication of immediate medical attention and special treatment needed

No data available

# 5 Fire Fighting Measures

# 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Unsuitable extinguishing media

No data available.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### **5.3** Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

#### 5.4 Further information

No data available

# 6 Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

# **6.2** Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see Section 13.

# 7 Handling and Storage

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Recommended Storage Temperature**: Below 30°C

# 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

#### 8 Exposure Controls/Personal Protection

# 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

# Eye/face protection

Faceshield and safety goggles.

## Skin protection

Handle with gloves.

## **Body protection**

Complete suit protecting against chemicals.

# Respiratory protection

Air-purifying respirators.

# **Environment exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Appearance White to yellow crystals or powder

Odour No data available **Odour Threshold** No data available No data available Hq Melting/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available Upper/lower flammability or explosive limits No data available **Evaporation rate** No data available No data available Flammability (Solid, gas) No data available Vapour pressure Relative density No data available Water Solubility No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available Viscosity No data available **Explosive properties** No data available Oxidizing properties No data available No data available Vapour density Thermal decomposition No data available

# 9.2 Other safety information

No data available

# 10 Stability and Reactivity

#### 10.1 Reactivity

No data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No data available

# 10.4 Conditions to avoid

Incompatible material

# 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

Other decomposition products - refer section 5.2.

In the event of fire - refer section 5.

# 11 Toxicological Information

# 11.1 Information on toxicological effects

# Acute toxicity

No data available

#### Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitisation

No data available

# Germ cell mutagenicity

No data available

# **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# 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

# **Additional Information**

RTECS: XF8100000

# 12 Ecological Information

# 12.1 Toxicity

No data available

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

# 12.5 PBT and vPvB assessment

PBT and vPVB assessment not available Chemical safety assessment is not required

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

# 13 Disposal Considerations

#### 13.1 Waste treatments methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

# 13.2 Contaminated packaging

Dispose of as unused product.

# 14 Transport Information

## 14.1 UN-No

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

# 14.2 UN proper shipping name

ADNR : Not dangerous goods
ADR : Not dangerous goods
IATA\_C : Not dangerous goods
IATA\_P : Not dangerous goods
IMDG : Not dangerous goods
RID : Not dangerous goods

# 14.3 Transport hazard class(es)

ADNR: -ADR: -IATA\_C: -IATA\_P: -IMDG: -RID: -

# 14.4 Packaging group

ADNR :- ADR :- IATA C :- IATA P :- IMDG :- RID :-

#### 14.5 Environmental hazards

ADNR: No ADR: No IMDG: Marine Pollutant: No IATA\_C: No IATA\_P: No RID: No

# 14.6 Special precautions for use

No data available

# 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

# 15.1 Safety health and environment regulations/legislation specific for the substance or mixture

No data available

#### 15.2 Chemical Safety Assessment

No data available

# 16 Other information

Text of H-Statements and EUH-Phrases mentioned in section 3

H315 Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Skin Irrit. 2 Skin corrosion or irritation, Category 2

Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract

irritation, Category 3

# **Further Information**

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