

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Date of issue: 02/04/2013 Version 1.0

## **SECTION 1. Identification**

### **Product identifier**

Product number 820359

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

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

Identified uses Chemical for synthesis

## Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

e-mail: mm\_sds@merckgroup.com

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

### **GHS Classification**

Acute toxicity, Category 4, Oral, H302 Chronic aquatic toxicity, Category 2, H411

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

## **GHS-Labeling**

Hazard pictograms





Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

Precautionary Statements

P273 Avoid release to the environment.

#### **OSHA Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Formula C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub> (Hill)

CAS-No. 101-37-1 Molar mass 249.27 g/mol

### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

2,4,6-Triallyloxy-1,3,5-triazine ( >= 90 % - <= 100 % )

101-37-1

#### SECTION 4. First aid measures

#### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

# Most important symptoms and effects, both acute and delayed

drowziness

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

No information available.

### SECTION 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

### Special hazards arising from the substance or mixture

Combustible material

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides, Hydrogen cyanide (hydrocyanic acid)

#### Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

## **Environmental precautions**

Do not empty into drains.

# Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store below +15°C (+59°F).

#### SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

# Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

#### Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

## Eye/face protection

Safety glasses

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9. Physical and chemical properties

Discordant state	11-1
Physical state	solid

Color yellow

Odor stinging

Odor Threshold No information available.

pH No information available.

Melting point 26 - 27 °C

Boiling point/boiling range 300 - 302 °F ( 149 - 150 °C)

at 3 hPa decomposes

Flash point 329 - 338 °F ( 165 - 170 °C)

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure 1.3 hPa

at 212 °F ( 100 °C)

Relative vapor density No information available.

Relative density 1.11 g/cm<sup>3</sup>

at 86 °F (30 °C)

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

Water solubility 0.3 g/l

at 68 °F (20 °C)

Partition coefficient: n- log Pow: 2.8 ( 20 °C)

octanol/water (experimental)

Bioaccumulation is not expected (log Pow <1). (External

MSDS)

Autoignition temperature No information available.

Decomposition temperature > 302 °F ( > 150 °C)

Viscosity, dynamic 12.9 mPa.s

at 86 °F (30 °C)

Explosive properties No information available.

## SECTION 10. Stability and reactivity

#### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Forms explosive mixtures with air on intense heating.

#### Chemical stability

Please observe stabilization.

Upon decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

tendency towards spontaneous polymerization

Stabilizer

Hydroquinone monomethyl ether

## Possibility of hazardous reactions

A risk of explosion and/or of toxic gas formation exists with the following substances:

acids

#### Conditions to avoid

Strong heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### Incompatible materials

no information available

# Hazardous decomposition products

in the event of fire: See section 5.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

## **SECTION 11. Toxicological information**

### Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity
LD50 rat: 753 mg/kg
OECD Test Guideline 401
Symptoms: drowziness

absorption

Acute dermal toxicity

LD50 rabbit: > 2,000 mg/kg Limit Test (External MSDS)

Skin irritation

rabbit

Result: No irritation OECD Test Guideline 404

Eye irritation

rabbit

Result: No eye irritation OECD Test Guideline 405

Sensitization

Sensitization test: guinea pig

Result: negative

Method: OECD Test Guideline 406

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative (External MSDS)

Mutagenicity (mammal cell test): micronucleus.

Result: negative (External MSDS)

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

### **Further information**

After absorption:

No description of any further symptoms is available.

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12. Ecological information**

#### **Ecotoxicity**

Toxicity to fish

LC0 Leuciscus idus (Golden orfe): 3.9 mg/l (External MSDS)

#### Persistence and degradability

Biodegradability 10 %; 28 d

OECD Test Guideline 301B

(External MSDS)

Not readily biodegradable.

## Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: 2.8 (20 °C)

(experimental)

Bioaccumulation is not expected (log Pow <1). (External MSDS)

## Mobility in soil

No information available.

#### Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

## **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (2,4,6-(ALLOXY)1,3,5-TRIAZINE)

Class 9
Packing group III
Environmentally hazardous --

Air transport (IATA)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (2,4,6-(ALLOXY)1,3,5-TRIAZINE)

Class 9
Packing group III
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

UN number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (2,4,6-(ALLOXY)1,3,5-TRIAZINE)

Class 9
Packing group III
Environmentally hazardous -Special precautions for user yes

EmS F-A S-F

## SECTION 15. Regulatory information

### **United States of America**

#### **OSHA Hazards**

Harmful if swallowed.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

### SARA 311/312 Hazards

Acute Health Hazard

### **SARA 313**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

#### **SARA 302**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

## Massachusetts Right To Know

Remarks

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Inaredients

2,4,6-Triallyloxy-1,3,5-triazine

#### New Jersey Right To Know

Ingredients

2,4,6-Triallyloxy-1,3,5-triazine

#### **Notification status**

TSCA: On TSCA Inventory

DSL: All components of this product are on the Canadian DSL.

### **SECTION 16. Other information**

# Training advice

Provide adequate information, instruction and training for operators.

#### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Date of issue:02/04/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 820359 Version 1.0

Product name 2,4,6-Tris(allyloxy)-1,3,5-triazine (stabilised) for synthesis

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.