

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 REACH

Print date: 31 August 2013 Revision Number: 1 Revision date: 31 August 2013

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

| Trademark: | Arichem STB-FR |
|-----------------------------|--|
| Product Code: | Arichem STB-FR |
| Product Description: | Sodium Trichlorobenzenesulfonate [CAS 53423-65-7] CAS name: Sodium-2,4,5-Trichlorobenzenesulfonate |
| Product Type: | Commercial Product |
| Recommended use: | May be used as a flame retardant in polycarbonate resir formulations |
| Company: | Arichem LLC 187 Sloss Industrial Road Ariton, AL 36311 USA |
| Manufacturer: | Arichem LLC 187 Sloss Industrial Road Ariton, AL 36311 USA |
| Emergency Telephone Number: | CHEMTREC (+1) 1-800-424-9300 8 am – 4:30 pm Monday-Friday: 334-762-2314 |
| Email: | BrendaHyatt@Arichem.com |

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

On skin contact:

White crystalline powder
No characteristic odor
Spilled material may create slipping hazard
Can burn in a fire producing toxic smoke
Decomposition products are toxic.
No other significant fire, explosion or health hazard.

Skin Contact: May cause minor skin irritation

Eye Contact: Powder particles may be irritating to the eyes

Inhalation: Powder particles may be irritating – avoid inhalation

Ingestion: Effects unknown. If ingested, get trained medical help.

Other Information: For skin or eye contact, flush affected areas with water

continuing for 20 minutes

3. COMPOSITION / INFORMATION ON INGREDIENTS

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC unless indicated.

4. FIRST AID MEASURES

If inhaled: Move to fresh air in the event of inhalation of concentrated

dust. Give artificial respiration if not breathing; Give oxygen

if breathing is difficult. Call for trained medical help. Flush contacted skin areas with water for 20 minutes

On eye contact: Flush eyes with water for 20 minutes

On ingestion: Effects unknown. If ingested, get trained medical help.

Precautions: In all cases, get trained medical help immediately.

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5. FIRE FIGHTING MEASURES

Autoignition Temperature: Not established

Explosive Limits: Not a significant explosion hazard.

UpperNot establishedLowerNot established

Suitable Extinguishing Media: Use dry chemical, CO₂, water fog, or regular foam.

Unsuitable Extinguishing Media: Solid water stream not recommended.

Hazardous Decomposition Products: Vapors containing SO_x and chlorides

Special Protective Equipment for

Firefighters:

Self-contained breathing apparatus (NEN-EN137) and full

protective fire fighting clothing

Specific Hazards: Flash Point: 950 °F (496 °C)

Vapors are toxic

6. ACCIDENTAL RELEASE MEASURES

Clean up: Collect for recycle into suitable containers for disposal.

Personal precautions: See Section 8

Environmental Precautions:Do not release into waterways or the environment

7. HANDLING AND STORAGE

Handling: Handle in a well-ventilated area. If adequate ventilation is

not possible, use a NIOSH/MSHA or other approved

dust/mist respirator or airline supplied respirator depending on concentrations. See section 8. Eye protection. Rubber

gloves.

Storage: Store in closed container in cool, well ventilated location.

Keep away from combustibles and other reactive materials.

See Section 10. Rotate stock. Don not puncture

containers.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: No information unless noted below

Engineering Measures to Reduce Exposure PEL for nuisance dust is 15 mg/m³ for total dust and 5

mg/m³ for the respirable fraction. Ventilate use area to maintain dust concentrations below the PEL. If such ventilation fails or is not available, use NIOSH/MSHA dust/mist respirator (or equivalent). Use good industrial

safety practices.

Hand Protection: Rubber gloves (NEN-EN 374)

Eye Protection: Safety glasses with side shields (NEN-EN 165-166).

Respiratory Protection: Self contained breathing apparatus in case of abnormal

conditions and suitable respiratory equipment in case of

insufficient ventilation (NEN-EN 149)

Body Protection: Long sleeved clothing (NEN-EN 340-369-465)

Hygiene Measures: When using, avoid eating, drinking, smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Crystalline Powder

Color: White Odor: None

Melting Point/Range:Not establishedAutoignition Temperature:Not establishedVapor Pressure:Not established

Water Solubility: 3.5 g/100 ml at 77 °F (25 °C)

Evaporation Rate: Not established

Specific Gravity: >1 (water = 1) **VOC content (%)** Negligible

Explosive Limits: Not a significant explosion hazard.

UpperNot establishedLowerNot established

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10. STABILITY AND REACTIVITY

Stability: Stable under ambient conditions. Hazardous

polymerization does not occur.

Conditions to avoid: Avoid elevated temperatures (950 °F or 496 °C)

Do not use without adequate ventilation.

Hazardous Decomposition Products: Decomposition vapors include SO_x and chlorides

11. TOXICOLOGICAL INFORMATION

LD50/oral/rat: Not established

LD50/dermal/rabbit: Not established

Subchronic toxicity:No information available

Primary Irritation: Skin

IARC: Not listed
OSHA: Not listed
NTP: Not listed

Remarks: Toxicological data has been taken from products of similar

composition

Special Studies: None

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Do not flush into surface water or sanitary sewer system

Ecotoxicity – Invertebrate Data: Ecological damages are not known or expected under

normal use

Germany VCI (WGK): 0

13. DISPOSAL CONSIDERATIONS

Waste from residues/ unused products: Recycle if possible. Dispose in accordance with local

regulations.

EWC waste disposal number:Allocation of a waste code number, according to the

European Waste Catalogue, should be carried out in

agreement with regional waste company.

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14. TRANSPORT INFORMATION

Transport Classification: Not regulated as hazardous for shipment, unless noted

below, under current transportation regulations.

ADR/RID/AND

IMDG

ICAO-TI/IATA

Not regulated

15. REGULATORY INFORMATION

EU Regulations:

Annex I, part 1 + 2: not mentioned.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous

With regard to possible decomposition products, see

substances Section 10.

National Regulations

TSCA (USA) Listed*
EINECS (Europe) Listed

REACH Information Pre-registered

RoHS EU Directive 2002/95/EC: In compliance.

Does not intentionally contain banned chemicals.

16. OTHER INFORMATION

Arichem STB-FR is a trademark of Arichem LLC.

MSDS Scope: This document conforms to Regulation EC No 1907/2006 REACH

This document is applicable to other countries and regions.

Prepared by: Arichem LLC

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^{* &}quot;Listed" means all chemical components are on respective inventory list and/or a qualifying exemption exists for one or more components. "Not listed" indicates that one or more components is restricted into that country or region.