# CHEMICALS®

# SAFETY DATA SHEET

#### 1. Identification

Product identifier AMBERLYST® A-21, ION-EXCHANGE RESIN

Other means of identification

Product code 2654 CAS number 9049-93-8

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

Chemtrec 800-424-9300

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name Address**GFS Chemicals, Inc.
800 Kaderly Drive
Columbus, OH 43228

**United States** 

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com E-mail service@gfschemicals.com

Emergency phone Emergency Assistance

number

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Not classified.

No hazards resulting from the material as supplied.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** The substance does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Substances**

%
100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Flush eyes with water as a precaution.

**Ingestion** Have victim rinse mouth thoroughly with water.

Material name: AMBERLYST® A-21, ION-EXCHANGE RESIN

2654 Version #: 02 Revision date: June-19-2018 Issue date: December-10-2013 1 / 6

**Most important** 

symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special

treatment needed
General information

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

**Unsuitable extinguishing** 

media

Use extinguishing agent suitable for type of surrounding fire.

Do not use water jet as an extinguisher, as this will spread the fire.

Direct contact with eyes may cause temporary irritation.

Do not use water jet as an extinguisner, as this will spread the fire.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for

firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved

or equivalent) and full protective gear.

Fire fighting

equipment/instructions

Move containers from fire area if you can do it without risk. Use water spray to cool unopened

containers.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Resin pellets spilled on the floor may cause slippery conditions.

For personal protection, see section 8 of the SDS. Sweep up to prevent slipping hazard.

Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up or gather material and place in appropriate container for disposal. The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. After removal flush contaminated area thoroughly with water. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

**Precautions for safe handling** 

Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

8. Exposure controls/personal protection

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering** 

controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Beads.
Color Beige.
Odor Odorless.

Material name: AMBERLYST® A-21, ION-EXCHANGE RESIN

2654 Version #: 02 Revision date: June-19-2018 Issue date: December-10-2013 2 / 6

**Odor threshold** Not available.

**pH** 5 - 9

**Melting point/freezing point** Not available.

Initial boiling point and

boiling range

212 °F (100 °C) loses water

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Flammability limit -

upper (%)

Not available.

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative density1.05 - 1.1

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

**Percent volatile** 54 - 60 % (water content)

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

**Incompatible materials** Strong oxidizing agents. Nitric acid

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity Not known.

2654 Version #: 02 Revision date: June-19-2018 Issue date: December-10-2013 3 / 6

Product Species Test Results

Modified tert-amine divinylbenzene styrene copolymer (CAS 9049-93-8)

Acute Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation
Serious eye damage/eye

May be irritating to the skin. May be irritating to eyes.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** Prolonged or repeated contact can result in defatting and drying of the skin which may result in

skin irritation and dermatitis (rash).

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** This material is not expected to be harmful to aquatic life.

Persistence and degradability None known.

Bioaccumulative potential No data available.

Mobility in soil No data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Offer rinsed packaging material to local recycling facilities.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

2654 Version #: 02 Revision date: June-19-2018 Issue date: December-10-2013 4 / 6

# 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

#### **US state regulations**

## **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## **International Inventories**

Country(s) or region	Inventory name On inventory (y	es/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	No	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No	
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)			

# 16. Other information, including date of preparation or last revision

**Issue date** December-10-2013 June-19-2018 **Revision date** 

**Version #** 02

5/6 2654 Version #: 02 

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# Disclaimer

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**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

2654 Version #: 02 Revision date: June-19-2018 Issue date: December-10-2013 6 / 6

Material name: AMBERLYST® A-21, ION-EXCHANGE RESIN