Alpha Resources

SAFETY DATA SHEET

SDS #64

1. Product and Company Identification

Material name SUCROSE, REAGENT (ACS)

 Catalog #
 AR2021

 Version #
 01

Revision date 4/23/2015 **CAS #** 57-50-1

Synonym(s) SUGAR * Beet sugar * Cane sugar

Manufacturer information Alpha Resources, Inc

P.O. Box 199, 3090 Johnson Rd, Stevensville,

MI 49127

www.alpharesources.com Fax 269-465-3629 Phone 269-465-5559 Toll Free 800-833-3083

Emergency Assistance Chemtrec 800-424-9300

2. Hazards Identification

Emergency overview Harmful in contact with eyes. Exposure to powder or dusts may be irritating to eyes, nose and

throat.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Eye contact.

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this

material in contact with eyes.

Skin Health injuries are not known or expected under normal use.

Inhalation Inhalation of dusts may cause respiratory irritation. Do not breathe dust.

Ingestion Health injuries are not known or expected under normal use.

Target organs Eyes. Respiratory system.

Chronic effects Conjunctiva.

Signs and symptoms Corneal damage. Conjunctivitis.

Potential environmental

effects

Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|------------|---------|----------|
| SUCROSE | 57-50-1 | 90 - 100 |

Composition comments

US OSHA Table Z-1-A: Time Weighted Average (TWA): mg/m3

SUCROSE 57-50-1 Total dust. MGM3 - 15 SUCROSE 57-50-1 Respirable fraction. MGM3 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contactRinse skin with water/shower. Get medical attention if irritation develops or persists. **Inhalation**If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person

immediately to fresh air. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center

immediately.

Notes to physician

Symptoms may be delayed.

General advice

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

protect themselves.

5. Fire Fighting Measures

Flammable properties

Dust may form explosive mixture with air. The product is not flammable. Will burn if involved

in a fire.

Extinguishing media

Suitable extinguishing

media

Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and precautions for firefighters

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

Cool containers exposed to flames with water until well after the fire is out.

Specific methods In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Local authorities should be advised if significant spillages

cannot be contained. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Wear a dust

mask if dust is generated above exposure limits.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Use water spray to reduce vapors or divert vapor cloud drift. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent

entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Following

product recovery, flush area with water.

7. Handling and Storage

Handling Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at

places where dust is formed. Do not breathe dust from this material. Do not get this material in contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment.

Value

15 mg/m3

Form

Total dust.

Wash thoroughly after handling. Handle and open container with care.

Storage Store in a well-ventilated place. Keep container tightly closed. Guard against dust

CAS#

accumulation of this material. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH Material

| SUCROSE | 57-50-1 | TWA | 10 mg/m3 | |
|---------------------|---------|------|---------------------|-----------------------------------|
| U.S OSHA | CAC # | Time | Volue | Fa |
| Material SUCROSE | CAS # | Туре | Value | Form |
| SUCKUSE | 57-50-1 | PEL | 5 mg/m3 15 mg/m3 | Respirable fraction. Total dust. |
| | | TWA | 5 mg/m3 | Respirable fraction. |

Type

Engineering controlsVentilation should be sufficient to effectively remove and prevent buildup of any dusts or

fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection Wear respirator with dust filter.

Hand protection Not normally needed.

Eye / face protection Do not get this material in contact with eyes. Wear dust goggles.

Skin protection No special protective equipment required.

General hygeine Do not breathe dust. Do not get this material in contact with eyes. Handle in accordance with

considerations good industrial hygiene and safety practice.

General Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical & Chemical Properties

AppearanceCrystalline.ColorWhite.OdorOdorless.Odor thresholdNot available.

Physical state Solid.

Form Powder. Crystalline. **pH** Not available.

Melting point $366.8 \, ^{\circ}\text{F} \, (185.5 \, ^{\circ}\text{C})$ Freezing point $366.8 \, ^{\circ}\text{F} \, (185.5 \, ^{\circ}\text{C})$

Boiling pointNot available.Flash pointNot available.Evaporation rateNot available.FlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

Vapor pressureNot available.Vapor densityNot available.

Specific gravity 1.587

Relative density 1.5805 g/cm3
Solubility (water) 2000 g/l
Partition coefficient -3.7

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature 320 - 365 °F (160 - 185 °C)

VOC 0 %
Percent volatile 0 %

Molecular weight342.3000 g/molMolecular formulaC12-H22-O11

10. Chemical Stability & Reactivity Information

Chemical stabilityStable at normal conditions.Conditions to avoidAvoid dust formation.Incompatible materialsAcids. Oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

MSDS US

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

11. Toxicological Information

Acute effects

Acute Oral: LD 50

SUCROSE 57-50-1 Rat 29700 mg/kg

Toxicology data for the preparation

Acute LD50: 29700 mg/kg, Rat, Oral

Local effects Contact may irritate or burn eyes. Inhalation of dusts may cause respiratory irritation.

Chronic effects Hazardous by OSHA criteria.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US ACGIH Threshold Limit Values: A4 carcinogen

SUCROSE 57-50-1 A4 Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicity This product has no known eco-toxicological effects.

Persistence and degradability Not available.

Partition coefficient -3.7

13. Disposal Considerations

Disposal instructionsThis product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Not applicable.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

Yes

chemical

Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of New and Existing Chemicals (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS | S) 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)

State regulations

This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

SUCROSE 57-50-1 Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 0 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience

currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in

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