Product Name:

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Apigenin Synonyms: Alfa Aesar - A Johnson Matthey Company Manufacturer/Supplier Name:

Address: 30 Bond St.

Ward Hill, MA 01835 Business Phone: 978-521-6300

978-521-6350 Business Fax: For information 978-521-6300 in North America, call: CHEMTREC Numbers:

For emergencies outside US, call INTERNATIONAL: (703)527-3887 For Nonemergency, call: (800)262-8200

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

For emergencies in the US, call CHEMTREC: 800-424-9300

Chemical Name 4',5,7 Trihydroxyflavone CAS# 520-36-5 % Weight (Typical)

4',5,7-Trihydroxyflavone, 97%

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Mutation data. Irritant. 4',5,7 Trihydroxyflavone

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Route of Exposure: Eyes. Skin. Inhalation. Ingestion. Potential Health Effects: Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation. Inhalation: Dust may be irritating to the respiratory tract. Ingestion: No acute oral toxicity available.

Eyes. Skin. Respiratory system. G.I. Tract. Target Organs:

SECTION 4: FIRST AID MEASURES

SECTION 5: FIRE FIGHTING MEASURES

SECTION 6: ACCIDENTAL RELEASE MEASURES

SECTION 7: HANDLING and STORAGE

Eye Contact:

Skin Contact:

Inhalation:

Unsuitable Media:

Protective Equipment:

Environmental Precautions:

Hygiene Practices:

Engineering Controls:

Respiratory Protection:

Other Protective:

Boiling Point:

Melting Point: Solubility in Water:

Molecular Formula:

Conditions to Avoid:

Incompatibilities with Other

Possible Decomposition

Molecular Weight:

Density:

Materials:

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If swallowed, call a physician or poison control center immediately. Never Ingestion: give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention. To Top of page

of overexposure become apparent.

become apparent.

Immediately flush eyes with plenty of water for at least 20 minutes.

Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritation persists, or symptoms

Immediately wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure

Remove to fresh air. If not breathing, give artificial respiration or give

As in any fire, wear self-contained breathing apparatus pressure-demand,

Equipment section. Sweep up, then place into a suitable container for

equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into

Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited to airborne concentrations that are typically within 10 times the exposure limit. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where

air-purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHAs 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace

Facilities storing or utilizing this material should be equipped with an

oxygen by trained personnel. Keep warm. Get immediate medical

Flash Point: No data Extinguishing Media: Use dry powder or carbon dioxide when fighting a fire involving this

Water extinguishers are not recommended.

NIOSH (approved or equivalent) and full protective gear.

disposal. Refer to section 13 for disposal requirements. Do not allow material to enter drains or streams.

Personal Precautions: Use proper personal protective equipment as listed in section 8. Clean up spills immediately, observing precautions in the Protective Spill Cleanup Measures:

Handling: This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or

contact with the skin or eyes and from contaminating personal clothing. Store in a cold, below -20 degrees celcius, dry, well ventilated area away Storage: from sources of heat and incompatible substances. Keep container tightly closed and freeze when not in use.

inhaling dust.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

No data

No data

C15H10O5

270.24

SECTION 10: STABILITY and REACTIVITY

SECTION 11: TOXICOLOGICAL INFORMATION

SECTION 13: DISPOSAL CONSIDERATIONS

SECTION 14: TRANSPORT INFORMATION

SECTION 15: REGULATORY INFORMATION

No data.

No data.

and seek medical advice.

S36 Wear suitable protective clothing.

LK9276000

4',5,7 Trihydroxyflavone

RTECS Number:

Ingestion Effects:

Inhalation Effects:

Eye Effect:

Skin Effects:

Ecotoxicity:

Bioaccumulation:

Environmental Stability:

Biodegredation:

Waste Disposal:

DOT Hazard Class:

Safety Phrase:

DOT Identification Number:

ca. 315°C (599°F)

Almost insoluble

local procedures for selection, training, inspection and maintenance of the personal protective equipment. Wear suitable protective clothing to prevent contact with skin. Skin Protection Description: Wear appropriate protective gloves. Consult glove manufacturers for glove Hand Protection Description: permeability data. Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European

Physical State/Appearance: Solid Color: Cream Flash Point:

0.905 0.915 @ 15°C/15°C (Ref:Sax)

High temperatures, flames and sparks.

Oxidizing agents. Acid halides.

Carbon monoxide.

conditions warrant a respirators use.

eyewash facility and a safety shower.

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Mutagenicity: Human mutation data reported. (RTECS). To Top of page SECTION 12 : ECOLOGICAL INFORMATION Catalog No. L15041

No information provided.

No information provided.

No information provided.

No information provided.

No data reported in the cited references as of the revision date.

No data reported in the cited references as of the revision date.

No data reported in the cited references as of the revision date.

No data reported in the cited references as of the revision date

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or

S26 In case of contact with eyes, rinse immediately with plenty of water

state and local guidelines, by a licensed disposal company.

4',5,7 Trihydroxyflavone TSCA 8(b): Inventory Status: No data Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

SECTION 16: ADDITIONAL INFORMATION

MSDS Preparation Date:

obtained by personal experience.

 American Chemical Society, STN Easy Online Database 2. Brethericks Reactive Chemical Hazards Database. Version 2. Gassarett and Doulls Toxicology, The Basic Science of Poisons. Hawleys Condensed Chemical Dictionary, Thirteenth Edition

Biological Exposure Indices. TLV Booklet, 2001.

Disclaimer:

References:

Research on Cancer.

January 1, 2002, Version 1 MSDS Revision Date: April 14, 2003. MSDS Author: Actio Corporation.

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We

responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals

Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. We welcome any additional information about our products that customers have

5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International

12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and

shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the

should be handled only by competent personnel, within a controlled environment.

6. Industrial Hygiene and Toxicology, by F.A. Patty. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical

10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables. 11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.

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