

Page 1/11 Creation Date 15-Apr-2015 Revision Date 14-Apr-2022 Version 4 SDS No. Exempt, SR&D ances and Safety Data Sheets)

MOEL's Public Notice No. 2020-130 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| Product Identifier | | | |
|--|--|---|--|
| Product Description: Cat No. : | Barium perchlorate trihydrate 11656 | | |
| CAS No | 10294-39-0 | | |
| Molecular Formula | Ba(CI O4)2 | | |
| | , , , , , , , , , , , , , , , , , , , | | |
| Relevant identified uses of the sub | stance or mi | xture and uses advised against | |
| Recommended Use | Laboratory | chemicals. | |
| Uses advised against | | tion available | |
| Details of the supplier of the safety | data sheet | | |
| Importer Fisher Scientific Korea D5,D6, Incheon Airport Logistics Com 150, Gonghangdong-Ro Mapo-Gu 29 Jung-Gu, Incheon 400-340 Tel: +82-2-6196-5500 Fax: +82-2-6196-5501 | | Supplier Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 | |
| E-mail address | | Chem.KR@thermofisher.com | |
| Emergency Telephone Number | | | |
| CHEMTRI | telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970 CHEMTREC: 1-800-424-9300 or + 1-703-527-3887 Korea: 00-308-13-2549 (24 hours a day, 7 days a week) | | |

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| Physical hazards | |
|---|--------------------------|
| Oxidizing solids | Category 1 |
| Health hazards | |
| Acute Oral Toxicity Acute Inhalation Toxicity - Dusts and Mists | Category 4 Category 4 |
| Environmental hazards Based on available data, the classification criteria are not met | |

Label Elements



Signal Word

Danger

Hazard Statements

H271 - May cause fire or explosion; strong oxidizer

H302 + H332 - Harmful if swallowed or if inhaled

Precautionary Statements

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P220 - Keep away from clothing and other combustible materials

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P283 Wear fire resistant or flame retardant clothing
- P264 Wash hands and face thoroughly after handling
- P270 Do not eat, drink or smoke when using this product

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

Response

P306 + P360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

P371 + P380 + P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P330 - Rinse mouth

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P312 - Call a POISON CENTER or doctor if you feel unwell

Storage

P420 - Store separately

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2 | 0 | 1 | - OX |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | Common Name | CAS No | Index No | Weight % |
|--|----------------|------------|------------|----------|
| Perchloric acid, barium salt, trihydrate | No information | 10294-39-0 | Not listed | 99 - 100 |
| | available | | | |

Note Note 1: The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture

SECTION 4: FIRST AID MEASURES

| Description of first aid measures General Advice | If symptoms persist, call a physician. |
|---|--|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |
| Most important symptoms and effe | ects, both acute and delayed |
| | None reasonably foreseeable. |

Indication of any immediate medical attention and special treatment neededNotes to PhysicianTreat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Not combustible.

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

Hydrogen chloride, Barium oxides.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Barium perchlorate trihydrate

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Keep away from clothing and other combustible materials.

Conditions for Safe Storage, Including any Incompatibilities

Store under an inert atmosphere. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Component | CAS No | Korea | ACGIH TLV | OSHA PEL |
|---|------------|----------------------------|----------------------------|--------------------------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | (Vacated) TWA: 0.5 mg/m ³ |

| Component | CAS No | European Union | The United Kingdom | Germany |
|---|------------|----------------------|---|---|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | TWA: 0.5 mg/m³ (8hr) | STEL: 1.5 mg/m³ 15 min TWA: 0.5 mg/m³ 8 hr | TWA: 0.5 mg/m ³ (8 Stunden). AGW - exposure factor 1 TWA: 0.5 mg/m ³ (8 Stunden). MAK Höhepunkt: 4 mg/m ³ |

Biological Exposure Indices

| Component | CAS No | Biological Exposure Indices |
|-------------------------------|------------|-----------------------------|
| Perchloric acid, barium salt, | 10294-39-0 | Not listed |
| trihydrate | | |

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

| Eye Protection | Wear safety glasses with side shields (or goggles) |
|--------------------------|--|
| Hand Protection | Protective gloves |
| Skin and body protection | Long sleeved clothing |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Barium perchlorate trihydrate

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

| Personal protective equipment Respiratory Protection | Use only those certified by the Korea Occupational Safety and Health Administration. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators |
|---|--|
| Recommended Filter type: | Particulates filter conforming to EN 143 To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly When RPE is used a face piece Fit Test should be conducted |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice |
| Environmental exposure controls | No information available |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic physical and Appearance (Physical State, Color, etc.) Odor Odor Threshold pH | | |
|---|--|-----------------------------------|
| Melting Point/Range Softening Point Boiling Point/Range Flash Point | No data available No data available No information available No information available | Method - No information available |
| Evaporation Rate Flammability (solid,gas) Explosion Limits | Not applicable No information available No data available | Solid |
| Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents | No data available Not applicable 2.74 g/cm3 No data available No information available No information available | Solid @ 20 ℃ |

Partition Coefficient (n-octanol/water)

| Component | CAS No | log Pow |
|--|------------|-------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available |

| Autoignition Temperature Decomposition Temperature | No data available No data available |
|---|--|
| Viscosity | Not applicable |
| Explosive Properties | No information available |
| Oxidizing Properties | Oxidizer |

Solid

Molecular Formula Molecular Weight Ba(Cl O4)2.3H2 O 390.29 (336.24anhy)

SECTION 10: STABILITY AND REACTIVITY

| <u>Reactivity</u> | Yes |
|---|---|
| Chemical Stability | Hygroscopic. Oxidizer: Contact with combustible/organic material may cause fire. |
| Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions | No information available. None under normal processing. |
| Conditions to Avoid | Exposure to moist air or water. Incompatible products. Excess heat. Combustible material. |
| Incompatible Materials | Strong reducing agents. Combustible material. |
| | |

Hazardous Decomposition Products

Hydrogen chloride. Barium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

| Inhalation Ingestion Eyes Skin | Not an expected route May be harmful if swa Avoid contact with ey Avoid contact with sk | allowed. es. | | |
|--|--|-------------------|-------------------|-------------------|
| Information on Health Hazards (a) acute toxicity; | | | | |
| Oral | Category 4 | | | |
| Dermal | No data available | | | |
| Inhalation | Category 4 | | | |
| Component | CAS No | LD50 Oral | LD50 Dermal | LC50 Inhalation |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available |

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

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| Respiratory | No data available |
|-------------|-------------------|
| Skin | No data available |

| Component | CAS No | Test method | Test species | Study result |
|--|------------|-------------------|-------------------|-------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available |

(e) germ cell mutagenicity; No data available

| Component | CAS No | Test method | Test species | Study result | |
|--|------------|-------------------|-------------------|-------------------|--|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available | |

(f) carcinogenicity;

No data available

| Component | CAS No | Test method | Test species / Duration | Study result |
|--|------------|-------------------|----------------------------|-------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available |

There are no known carcinogenic chemicals in this product

| Component | CAS No | IARC | NTP | ACGIH | OSHA | UK |
|---|------------|------------|------------|------------|------------|------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not listed |

(g) reproductive toxicity;

No data available

| Component | CAS No | Test method | Test species / Duration | Study result |
|--|------------|-------------------|----------------------------|-------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | No data available | No data available | No data available |

| (j) aspiration hazard; | Not applicable |
|-----------------------------|---------------------------|
| Target Organs | No information available. |
| (i) STOT-repeated exposure; | No data available |
| (h) STOT-single exposure; | No data available |

Solid

Other Adverse Effects

No information available.

| Component | CAS No | EU - Endocrine Disrupters Candidate | EU - Endocrine Disruptors - Evaluated | Japan - Endocrine Disruptor Information |
|--|------------|--|--|--|
| | | List | Substances | - |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| 1 | Component | CAS No | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|---|-------------------------------|------------|-------------------|-------------------|-------------------|-------------------|
| | Perchloric acid, barium salt, | 10294-39-0 | No data available | No data available | No data available | No data available |
| | trihydrate | | | | | |

Persistence and degradability

No information available

Bioaccumulative potential

Barium perchlorate trihydrate

No information available

| <u>Mobility in soil</u> Ozone Depletion Potential | No information available | |
|--|--------------------------|---------------------------|
| Component | CAS No | Ozone Depletion Potential |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not listed |
| | | |

Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

| Waste from Residues/Unused Products | Waste is classified as hazardous. Dispose in accordance with the Wastes Control Act (폐기물관리법). | | |
|--|---|--|--|
| Contaminated Packaging | Dispose of this container to hazardous or special waste collection point. | | |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. | | |

SECTION 14: TRANSPORT INFORMATION

| Road and Rail Transport UN-No Proper Shipping Name Hazard Class Subsidiary Hazard Class Packing Group | UN1447 BARIUM PERCHLORATE, SOLID 5.1 6.1 II |
|---|--|
| IATA UN-No Proper Shipping Name Hazard Class Subsidiary Hazard Class Packing Group | UN1447 BARIUM PERCHLORATE, SOLID 5.1 6.1 II |
| IMDG/IMO UN-No Proper Shipping Name Hazard Class Subsidiary Hazard Class Packing Group Marine Pollutant | UN1447 BARIUM PERCHLORATE, SOLID 5.1 6.1 II No hazards identified |

Special Precautions for User

No special precautions required

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend: X - Listed '-' - Not Listed

International Inventories

Barium perchlorate trihydrate

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| Component | CAS No | KECL | TSCA | EINECS | IECSC | DSL | NDSL | PICCS | ENCS | ISHL | AICS |
|-------------------------------|------------|------|------|--------|-------|-----|------|-------|------|------|------|
| Perchloric acid, barium salt, | 10294-39-0 | - | - | - | - | - | - | Х | - | | Х |
| trihydrate | | | | | | | | | | | |

| Component | CAS No | Seveso III Directive | Seveso III Directive | Rotterdam | Basel Convention |
|---|------------|--------------------------------------|-----------------------|------------------|-------------------|
| | | (2012/18/EC) - | (2012/18/EC) - | Convention (PIC) | (Hazardous Waste) |
| | | Qualifying Quantities | Qualifying Quantities | · · · | , , , |
| | | for Major Accident for Safety Report | | | |
| | | Notification | Requirements | | |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential |
|---|------------|----------------|---------------------------------|------------------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

Korean National Regulations

| Component | CAS No | Act on Registration and Evaluation of Chemical Substances (K-REACH) | Authorised Chemicals | Existing Substances Subject to Registration |
|---|------------|---|----------------------|--|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Chemical Control Act - Toxic Chemicals | Chemical Control Act - Prohibited Chemicals | Chemical Control Act - Use Restricted Chemicals |
|---|------------|---|--|---|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Chemical Control Act - Accident Precaution Chemicals (% in mixtures) | Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures) | Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures) |
|---|------------|---|--|--|
| Perchloric acid, barium salt, trihvdrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Waste Control Law | Ministry of Environment - CMR risk | Ministry of Environment - Critically Controlled Substance |
|---|------------|-------------------|---------------------------------------|---|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | ISHA - Harmful Agents Subject to Work Environment Monitoring | ISHA - Prohibited substances | ISHA - Substances requiring permission |
|---|------------|--|---------------------------------|---|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Listed | Not applicable | Not applicable |

| Component | CAS No | ISHA - Substances subject to control | ISHA - Harmful Agents Requiring Health Examination | ISHA - Permissible Exposure Limits |
|---|------------|---|--|---------------------------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Listed | Not applicable | Not applicable |

| Component | CAS No | ISHA - Subject to Process Safety Reports (minimum quantity) | ISHA - Threshold Limit Values (TLVs) Chemicals | ISHA - Special management materials |
|---|------------|---|---|--|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | TWA: 0.5 mg/m ³ | Not applicable |

National Fire Association - Dangerous Substances Minimum quantity requiring a permit

| Component | CAS No | Class 1 - Oxidising solids | Class 2 - Flammable solid | Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet | Class 4 - Flammable liquids | Class 5 - Self-reactive substances | Class 6 - Oxidising liquids |
|--|------------|----------------------------------|---------------------------------|--|-----------------------------------|--|-----------------------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

NFA Dangerous Substances Classification

Class 1.3 (Perchlorates) - 50 kg

Control Parameters

| Component | CAS No | Korea | Biological Exposure Indices |
|-------------------------------|------------|----------------------------|-----------------------------|
| Perchloric acid, barium salt, | 10294-39-0 | TWA: 0.5 mg/m ³ | Not listed |
| trihydrate | | | |

US Management Information

OSHA - Occupational Safety and Health Administration

| Not applicable | | | |
|--|----------------|-------------------------------------|----------------------------|
| Component | CAS No | Specifically Regulated Chemicals | Highly Hazardous Chemicals |
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable |
| CERCIA | Not applicable | | |

CERCLA Not applicable

| Component | CAS No | CERCLA EHS RQs | Hazardous Substances RQs | SARA 313 - Threshold Values % |
|---|------------|----------------|-----------------------------|----------------------------------|
| Perchloric acid, barium salt, trihydrate | 10294-39-0 | Not applicable | Not applicable | 1.0 |

CLP Classification - Regulation (EC) No 1272/2008

Danger.

H271 - May cause fire or explosion; strong oxidizer. H302 + H332 - Harmful if swallowed or if inhaled.

P221 - Take any precaution to avoid mixing with combustibles. P371 + P380 + P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P312 - Call a POISON CENTER or doctor if you feel unwell. P264 - Wash face, hands and any exposed skin thoroughly after handling. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 16: OTHER INFORMATION

Legend

| CAS - Chemical Abstracts Service | TSCA - United States Toxic Substances Control Act Section 8(b) |
|---|---|
| | Inventory |
| EINECS/ELINCS - European Inventory of Existing Commercial Chemica | I DSL/NDSL - Canadian Domestic Substances List/Non-Domestic |
| Substances/EU List of Notified Chemical Substances | Substances List |
| PICCS - Philippines Inventory of Chemicals and Chemical Substances | ENCS - Japanese Existing and New Chemical Substances |
| IECSC - Chinese Inventory of Existing Chemical Substances | AICS - Australian Inventory of Chemical Substances |
| KECL - Korean Existing and Evaluated Chemical Substances | NZIOC - New Zealand Inventory of Chemicals |

Barium perchlorate trihydrate

WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists **RPE** - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

POW - Partition coefficient Octanol:Water

TWA - Time Weighted Average IARC - International Agency for Research on Cancer LD50 - Lethal Dose 50% EC50 - Effective Concentration 50%

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code **OECD** - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Ships

Prepared By **Creation Date Revision Date Revision Number Revision Summary**

Health, Safety and Environmental Department 15-Apr-2015 14-Apr-2022 4 SDS sections updated.

MOEL's Public Notice No. 2020-130 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

Disclaimer

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 the text

End of Safety Data Sheet

ALFAA11656

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from ATE - Acute Toxicity Estimate

VOC (volatile organic compound)