

Process Aid HT16

| 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION | |
|---|--|
| Manufacturer Shandong Yanggu Huatai Chemical Co., LTD No.217, Qinghexi Road Yanggu County, Shandong, China 252300 | Emergency Contact Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA) |
| Trade Name(s): Process Aid HT16 | Chemical Name: Calcium salts of natural fatty acids in combination with amide ester waxes. |
| Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. | Application of the substance/the preparation: Processing aid/Additive. |
| Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS | SDS Number: 1890 Date of Issue: April 10, 2014 Revision Number: 1 (supersedes Provisional) Change(s): First Issue |

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as hazardous according to GHS regulations.

The product is not classified as hazardous according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment: The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008: Not regulated.

Hazard pictograms: Not regulated.

Signal word: Not regulated.

Hazard-determining components of labeling: None

Hazard statements: Not regulated.

Hazard description

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0-4)



Health = 1
 Fire = 0
 Reactivity = 0

HMIS ratings (scale 0-4)

| | |
|------------|---|
| HEALTH | 1 |
| FIRE | 0 |
| REACTIVITY | 0 |

Health = 1
Fire = 0
Reactivity = 0

HMIS Long Term Health Hazard Substances: None of the ingredients is listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: None in reportable quantities.

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact

Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses if worn.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Slight irritant effect on skin and mucous membranes.

Slight irritant effect on eyes.

Gastric or intestinal disorders when ingested.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water fog or haze.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery of disposal in suitable receptacles.

Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Store in cool location.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see Section 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

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|-------------------------------------|---|
| 7778-18-9 calcium sulphate, natural | |
| PEL (USA) | Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction |
| REL (USA) | Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction |
| TLV (USA) | Long-term value: 10* mg/m ³ *as inhalable fraction |
| EL (Canada) | Long-term value: 10 mg/m ³ inhalable |
| EV (Canada) | Long-term value: 10 mg/m ³ inhalable |

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures: No further relevant information available.

Respiratory protection

Use suitable respiratory protective device when high concentrations are present.

For spills, respiratory protection may be advisable.

Not required under normal conditions of use.

Protection of hands



Rubber gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable: Rubber gloves.

Eye protection



Safety glasses

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment: No special requirements.

Risk management measures: No special requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

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|---|---|
| Appearance Form: Pellets. Color: White. | Change in Condition Melting point/Melting range: 167-201.2 °F / 75-94°C. Boiling point/Boiling range: Undetermined. |
| Odor: Mild. | Octanol/Water Partition Coefficient: Not determined. |
| Odor threshold: Not determined. | pH value at 20 °C: Not applicable. |
| Vapor Pressure: Not applicable. | Flash point: Not applicable. |
| Density at 20 °C: 1.2 g/cm ³ | Flammability (solid, gaseous): Not determined. |
| Relative density: Not determined. | Ignition temperature: Not determined. |
| Vapor density: Not applicable. | Decomposition temperature: Not determined. |
| Evaporation rate: Not applicable. | Self-igniting: Product is not self-igniting. |
| Solubility in / Miscibility with water: Insoluble. | Danger of explosion: Product does not present an explosion hazard. |
| Viscosity Dynamic: Not applicable. Kinematic: Not applicable. | Explosion limits Lower: Not determined. Upper: Not determined. |

9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

10.4 Conditions to avoid: Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Sulfur oxides (Sox)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect

on the skin: Slight irritant effect on skin and mucous membranes.

on the eye: Slight irritant effect on eyes.

Sensitization: No sensitizing effects known.

Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU Classification

Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: The product is partially biodegradable. Significant residuals remain.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information

General notes

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Can be reused after processing.

Contact waste processors for recycling information.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of the unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION

14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA

Not regulated.

- 14.2 UN proper shipping name
DOT, ADR, ADN, IMDG, IATA Not regulated.
- 14.3 Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA Class Not regulated.
- 14.4 Packing group
DOT, ADR, IMDG, IATA Not regulated.
- 14.5 Environmental hazards
Marine pollutant No
- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code Not applicable.
UN "Model Regulation"

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

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| SARA Section 355 (extremely hazardous substances) | None of the ingredients is listed. |
| SARA Section 313 (Specific toxic chemical listings) | None of the ingredients is listed. |
| TSCA (Toxic Substances Control Act) | All of the ingredients are listed. |
| Proposition 65 (California) | |
| Chemicals known to cause cancer | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for females | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for males | None of the ingredients is listed. |
| Chemicals known to cause developmental toxicity | None of the ingredients is listed. |
| Carcinogenic Categories | |
| EPA (Environmental Protection Agency) | None of the ingredients is listed. |
| IARC (International Agency for Research on Cancer) | None of the ingredients is listed. |
| TLV (Threshold Limit Value established by ACGIH) | None of the ingredients is listed. |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | None of the ingredients is listed. |
| OSHA-Ca (Occupational Safety & Health Administration) | None of the ingredients is listed. |

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| Canada | |
| Canadian Domestic Substances List (DSL) | All of the ingredients are listed. |
| Canadian Ingredient Disclosure list (limit 0.1%) | None of the ingredients is listed. |
| Canadian Ingredient Disclosure list (limit 1%) | None of the ingredients is listed. |

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)