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1. IDENTIFICATION

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Product Name: Orange Luster Compound
 Product Number: 2150037

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS

Explosives :	Not applicable
Flammable gases :	Not applicable
Flammable aerosols :	Not applicable
Oxidizing gases :	Not applicable
Gases under pressure :	Not applicable
Flammable liquids :	Not applicable
Flammable solids :	Classification not possible
Self-reactive substances and mixtures :	Not applicable
Pyrophoric liquids :	Not applicable
Pyrophoric solids :	Not classified
Self-heating substances and mixtures :	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases :	Not classified
Oxidizing liquids :	Not applicable
Oxidizing solids :	Classification not possible
Organic peroxides :	Classification not possible
Corrosive to metals :	Classification not possible

HEALTH HAZARDS

Acute toxicity - oral :	Classification not possible
Acute toxicity - skin :	Classification not possible
Acute toxicity - inhalation: gas :	Not applicable
Acute toxicity - inhalation: vapour :	Classification not possible
Acute toxicity - inhalation: dust :	Classification not possible
Acute toxicity - inhalation: mist :	Not applicable
Skin corrosion / irritation :	Category 3
Serious eye damage / eye irritation :	Classification not possible
Respiratory sensitization :	Classification not possible
Skin sensitization :	Classification not possible
Germ cell mutagenicity :	Classification not possible
Carcinogenicity :	Classification not possible
Reproductive toxicity :	Classification not possible
Specific target organ systemic toxicity - Single exposure :	Category 3 - Respiratory tract irritation
Specific target organ systemic toxicity - Repeated exposure :	Category 1 - Inhalation ; Lung, Central nervous system

ENVIRONMENTAL HAZARDS	- Repeated exposure :	
	Aspiration hazard :	Classification not possible
	Hazardous to the aquatic environment	Classification not possible
	- acute :	
	Hazardous to the aquatic environment	Classification not possible
	- chronic :	
	Hazardous to the ozone layer	Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS / SYMBOLS :



SIGNAL WORD :

DANGER

HAZARD STATEMENTS :

May be harmful if swallowed
 Causes mild skin irritation
 May cause respiratory irritation
 Cause damage to lung, central nervous system through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS

Prevention :

Do not eat, drink or smoke when using this product.
 Use only outdoors or in well-ventilated area.
 Do not breath dust.
 Wear protective eyeglasses as needed.
 Wear respiratory protection / face protection / protective gloves / goggles and clothing.
 Wash hands thoroughly after handling.

Response :

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage :

If you feel unwell, get medical attention.

Disposal :

Store in a well-ventilated / cool place.
 Dispose of contents / container in accordance with local / regional / national / international regulations.
 Dispose of cleaning solution after making harmless.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture :	Mixture	
Chemical name	CAS No.	Concentration [%]
Aluminium oxide (Al ₂ O ₃)	1344-28-1	78
Polyoxyethylene stearate ester	9004-99-3	2

4. FIRST-AID MEASURES

Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, get medical advice / attention.
Skin contact :	Remove / take off immediately all contaminated clothing. Rinse skin immediately with water / shower. Wash contaminated clothing before reuse.
Eye contact :	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention / advice
Ingestion :	Rinse mouth immediately with water. Call a doctor immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	In case of initial fires, use fire-extinguishing powder / foam, carbon dioxide or dry sand. In case of larger fires, effective to shut off air using fire-extinguishing foam and others.
Unsuitable extinguishing media :	Using water may be dangerous to spread fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :	Evacuate nonessential personnel. Authorized personnel only. Wear proper protective equipment (gloves / goggles / clothing and high boots).
Environmental precautions :	Caution do not to discharge into rivers or seas. Do not wash away directly into rivers or sewer.
Method and materials for contaminant and cleaning up :	Collect spilled material into empty containers

7. HANDLING AND STORAGE

HANDLING

Technical measure	According to " 8. EXPOSURE CONTROLS / PERSONAL PROTECTION ", put facility measures into operation and wear protective equipment.
Local-ventilation / Whole ventilation :	According to " 8. EXPOSURE CONTROLS / PERSONAL PROTECTION ", put facility measures into operation (Local-ventilation / Whole ventilation).
Note :	Use only outdoors or in well-ventilated area. Do not contact / breathe / swallow. Do not breathe powder dust. Wash hands thoroughly after handling.

STORAGE

Technical measure :	Install the equipment of lighting, ventilation and necessary daylighting to handle.
Incompatible substances :	Reference to " 10. STABILITY AND REACTIVITY ".
Storage conditions :	Keep away from high heat and store in a well ventilated / cool place.
Packaging materials :	Use a break-proof package.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Facility measures :	Ventilate to avoid inhalation of dust.
Personal protective equipment	
Respiratory protection :	Wear appropriate respiratory protective equipment, dust-proof mask and others.
Hand protection :	Wear appropriate protective gloves, leather gloves and others.
Eye protection :	Wear protective glasses (ordinary glasses type, goggle type and others).
Skin and body protection :	Wear protective clothing and safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Yellow solid
Odor :	Slight odor
pH :	No data
Melting point / freezing point :	No data
Initial boiling point and boiling range :	No data
Flash point :	No data
Explosion limit :	No data
Vapour pressure :	No data
Vapour density :	No data
Relative density :	No data

Solubility :	Insoluble in water
Partition coefficient : n-octanol / water :	No data
Auto-ignition temperature :	No data
Decomposition temperature :	No data

10. STABILITY AND REACTIVITY

Stability / Reactivity :	Stable under normal condition (room temperature).
Possibility of hazardous reactions :	Almost never
Condition to be avoided :	Spread of dust
Incompatible materials :	Do not store together with acid / alkaline materials.
Hazardous decomposition products :	Nothing

11. TOXICOLOGICAL INFORMATION

Acute toxicity :	Aluminium oxide LD ₅₀ >5000 mg/kg (rat, oral) ¹⁾ Polyoxyethylene stearate ester Category 4 ²⁾ Fatty acids LD ₀ 4640 mg/kg (rat)
Skin corrosion / irritation :	Polyoxyethylene stearate ester has the potential to be hazardous upon contact with the skin, and has the potential to irritate the skin. (Category 2) ²⁾ This product is classified Category 3 to contain Polyoxyethylene stearate ester by 2%
Serious eye damage / eye irritation :	No data
Respiratory sensitization :	No data
Skin sensitization :	No data
Germ cell mutagenicity :	No data
Carcinogenicity :	No data
Reproductive toxicity :	No data
Specific target organ systemic toxicity - Single exposure :	Aluminium oxide is classified Category 3 (Respiratory tract irritation) based on enrollment "upper respiratory tract irritation". ³⁾ This product is classified Category 3 to contain Aluminium oxide by 20% and over.
Specific target organ systemic toxicity - Repeated exposure :	Occupational lung fibrosis caused by inhalation of Aluminium oxide. (Category 1) ⁴⁾ Aluminium oxide is classified Category 1 (Inhalation ; Central nervous system) based on enrollment "Aluminium oxide have the potential to impact the central nervous system". ³⁾ This product is classified Category 1 to contain Aluminium oxide by 10% and over.
Aspiration hazard :	No data

12. ECOLOGICAL INFORMATION

Ecotoxicity :	No data
Persistence / Degradability :	No data
Bioaccumulation potential :	No data
Mobility in soil :	No data
Hazard to the ozone layer :	No data

13. DISPOSAL CONSIDERATIONS

The remainder waste :	In case of the disposal, comply with local government codes and related regulations.
Contaminated container and packing :	Recycle containers after washing, or dispose according to local government codes and related regulations. In case of disposal of the container, remove the content.

14. TRANSPORT INFORMATION

International regulations : Not applicable with IMDG Code and IATA Dangerous Goods Regulations.
Safety measure and condition for transport : Check the container for damage, corrode and leak before transport.
Load the cargo without fall, drop and damage. Prevent the cargo from unpling for sure. Handle the shipping case with care and do not make an impact. Do not handle shipping case roughly, for example, collision, drag, etc.

15. REGULATORY INFORMATION

Aluminium oxide : Industrial Safety and Health Act;
Notifiable hazardous substance, 189 Aluminium oxide
(Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Appended Table 9)

Other regulations for foreign countries: Regulations in "SDS" are Japanese ones.
Regulatory information with regards to this preparation in your country or region should be examined by your own responsibility.

16. OTHER INFORMATION

REFERENCES :

- 1) IUCLID (2000)
- 2) Safety data sheet (each raw material manufacturer)
- 3) ICSC (2000)
- 4) EHC (1997)

The information herein is given in good faith, but no warranty, express or implied, is made.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions.
We reserve the right to revise SDS periodically as new information become available.