

PE873

Version 4.0 Revision Date 2018/02/15
Document no. 130000143881 Issue Date 2023/07/14

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

Section 1 - Chemical and Enterprise Identification

Product name : PE873

Product name in English : PE873

Other names : PE873 INTEXAR™

Recommended use of the chemical and restriction on use

Recommended use : For industrial use only.

Paste for electronic industry

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier

Company : Celanese (Shanghai) International Trading Co., Ltd

Street address : 4560 Jinke Road, Zhangjiang, Pudong Shanghai, China 201210

E-mail address : HazCom@celanese.com

Emergency telephone

number

CHEMTREC International: +1-703-527 3887, +86 532 8388-9090 (China, 24h)

Date of first preparation : 2016/01/18

Section 2 - Hazard Identification

GHS Hazard Category

Flammable liquids : Category 4 Serious eye : Category 2B

damage/eye irritation

Specific target organ : Category 1 (Respiratory system)

toxicity - repeated

exposure

Acute aquatic toxicity : Category 1 Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger



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Hazardous warnings : Combustible liquid.

Causes eye irritation.

Causes damage to organs through prolonged or repeated exposure. (Respiratory

system)

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Preventive Measures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/ eye protection/ face protection.

Accident Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell. If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Collect spillage. Safe Storage:

Store in a well-ventilated place. Keep cool.

Waste Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Main Symptom After Contact

No information available.

Section 3 - Ingredients/Composition Information

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Silver powder	7440-22-4	50 - 60%
Dimethyl glutarate	1119-40-0	20 - 30%
Dimethyl succinate	106-65-0	10 - 20%

Section 4 - First-aid Measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing,

give artificial respiration. Get medical attention.

Skin contact : Wash off with soap and water. Get medical attention if irritation develops and

persists. Wash contaminated clothing before re-use.

Eye contact : Immediately flush eyes for at least 15 minutes. Get medical attention.



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Ingestion : If swallowed Rinse mouth with water. Call a physician or poison control centre

immediately. DO NOT induce vomiting unless directed to do so by a physician or

poison control center.

Most important symptoms/effects, acute

and delayed

No information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

Section 5 - Fire-fighting Measures

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Water spray, Dry chemical, Carbon dioxide (CO2)

Specific hazards : Hazardous decomposition products formed under fire conditions. (see also section

10) Avoid breathing decomposition products.

Special protective

equipment for firefighters

Exposure to decomposition products may be a hazard to health. Wear self-

contained breathing apparatus for firefighting if necessary.

Specific extinguishing

methods

No information available.

Further information : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal

risk. Do not allow run-off from fire fighting to enter drains or water courses.

Section 6 - Leak Emergency Treatment

Protective measures, devices and emergency treatment procedure for workers

suitable protective equipment.

Environmental

precautions

: Prevent further leakage or spillage if safe to do so. Prevent product from entering

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear

drains. Clean contaminated floors and objects thoroughly while observing

environmental regulations.

Methods and materials for containment and

cleaning up

Contain spill. Soak up with inert absorbent material. Collect and contain

contaminated absorbent and dike material for disposal. Keep in suitable, closed

containers for disposal. Ventilate the area. Clean contaminated surface

thoroughly.

Prevention of secondary

hazards

No information available.

Additional advice : Dispose of in accordance with local regulations.

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Section 7 - Operation Handling and Storage

Operation Handling

Technical

measures/Precautions

Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. Keep container closed when not in use. Take care to avoid waste and spillage when weighing, loading and mixing the product.

Precautions for safe

handling

Avoid formation of dust and aerosols. Keep away from heat and sources of

ignition.

Storage

Suitable storage conditions

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container.

Storage period: Stable under normal conditions.

Section 8 - Exposure Control and Personal Protection

Control parameters

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Silver powder		
TWA	0.1 mg/m3 (Dust and fume.)	US ACGIH

Engineering controls: Local exhaust or a laboratory hood should be used when handling the materials.

Maintain air concentrations below occupational exposure standards.

Biological occupational

exposure limits

No information available.

Personal protective equipment

Respiratory protection

Provide adequate ventilation. No personal respiratory protective equipment normally required. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Persons performing maintenance or repairs on exhaust system equipment (e.g. ducts) may need to use respirators and protective clothing to prevent exposure to

any accumulated residues.

Hand protection : Material: Impervious gloves

Gloves must be inspected prior to use., Gloves should be discarded and replaced



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if there is any indication of degradation or chemical breakthrough., The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., The exact break through time can be obtained from the protective glove producer and this has to be observed., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields.

Skin protection : Choose body protection in relation to its type, to the concentration and amount of

dangerous substances, and to the specific work-place.

Lightweight protective clothing

Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid

contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing and protective equipment before entering eating areas. Remove and wash contaminated clothing

before re-use.

Section 9 - Physical and Chemical Properties

Appearance (Physical state, form, colour, etc.)

Physical state : liquid

Form : paste, viscous liquid

Colour : silver

Odour : like fruit

Odour Threshold : No information available.

pH : No information available.

Melting point/freezing point

No information available.

Boiling point, initial boiling point and boiling range

No information available.

Flash point : 91.1 °C

Method: closed cup

Evaporation rate : No information available.

Flammability (solid, gas) : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available. Lower explosion limit : No information available.

Vapour pressure : No information available.



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Vapour density : No information available.

Density

Density : 2.05 g/cm3

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

No information available.

Viscosity

Viscosity, kinematic : No information available.

Molecular weight : No information available.

Section 10 - Stability and Reactivity

Reactivity : No information available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

: Polymerization will not occur.

Conditions to avoid : None reasonably foreseeable.

Materials to avoid : Acids, bases and strong oxidizing agents

Hazardous

decomposition products

No decomposition if stored and applied as directed.

Hazardous decomposition products, Under fire conditions:, Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke., metal

oxides, Isocyanates, Isocyanic Acid

Section 11 - Toxicological Information

Acute toxicity

Oral

Silver powder : LD50/Rat: > 2,000 mg/kg

Method: OECD Test Guideline 401

The substance or mixture has no acute oral toxicity

Dimethyl glutarate : LD50/Rat: > 5,000 mg/kg

The substance or mixture has no acute oral toxicity

Dimethyl succinate

Inhalation

: LD50/Rat: 6,892 mg/kg

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Silver powder : LC50/4 h/Rat(dust/mist): > 5.16 mg/l

Method: OECD Test Guideline 436

The substance or mixture has no acute inhalation toxicity

Dimethyl glutarate : Toxic effects cannot be excluded
Dimethyl succinate : LC50/4 h/Rat(dust/mist): > 5.9 mg/l
Target Organs: Respiratory Tract

Respiratory tract irritation

Dermal

Silver powder : LD50/Rat: > 2,000 mg/kg

Method: OECD Test Guideline 402

The substance or mixture has no acute dermal toxicity

Information given is based on data obtained from similar substances.

Dimethyl glutarate : LD50/Rabbit: > 5,000 mg/kg

The substance or mixture has no acute dermal toxicity

Dimethyl succinate : LD50/Rabbit: > 5,000 mg/kg

The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Silver powder : Species: Rabbit

Result: No skin irritation

Classification: No skin irritation Method: OECD Test Guideline 404

Dimethyl glutarate : Species: Rabbit

Result: No skin irritation

Classification: Not classified as irritant

Dimethyl succinate : Species: Rabbit

Result: No skin irritation

Classification: Not classified as irritant

Serious eye damage/eye irritation

Silver powder : Species: Rabbit

Result: No eye irritation Classification: No eye irritation Method: OECD Test Guideline 405

Dimethyl glutarate : Species: Rabbit

Result: Mild eye irritation

Classification: Irritating to eyes.

Dimethyl succinate : Species: Rabbit

Result: Mild eye irritation Classification: Irritating to eyes.

Respiratory or skin sensitisation

Silver powder : Species: Guinea pig

Result: Does not cause skin sensitisation.
Classification: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Information given is based on data obtained from similar substances.

Dimethyl glutarate : Species: Guinea pig

Result: Animal test did not cause sensitization by skin contact.

Classification: Not a skin sensitizer.

Dimethyl succinate : Local lymph node test

Species: Mouse

Result: Does not cause skin sensitisation.



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Classification: Not a skin sensitizer.

Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity

Silver powder : Weight of evidence does not support classification as a germ cell

mutagen. Overall weight of evidence indicates that the substance is not mutagenic. Information given is based on data obtained from similar

substances.

Dimethyl glutarate : Animal testing did not show any mutagenic effects. Did not cause

genetic damage in cultured bacterial cells.

Dimethyl succinate : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects. Evidence suggests this substance does not cause genetic

damage in animals.

Carcinogenicity

Silver powder : Weight of evidence does not support classification as a carcinogen

Overall weight of evidence indicates that the substance is not

carcinogenic.

Reproductive toxicity

Silver powder : Teratogenicity: Animal testing showed no developmental toxicity.

Information given is based on data obtained from similar substances.

Dimethyl glutarate : Reproductive toxicity: No toxicity to reproduction

Animal testing showed no reproductive toxicity.

Teratogenicity: Animal testing showed no developmental toxicity.

Dimethyl succinate : Reproductive toxicity: No toxicity to reproduction

Animal testing showed no reproductive toxicity.

Teratogenicity: Animal testing showed no developmental toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Silver powder : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

Dimethyl succinate : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

The substance or mixture is classified as specific target organ toxicant,

single exposure, category 3 with respiratory tract irritation.

Specific target organ toxicity - repeated exposure

Silver powder : The substance or mixture is not classified as specific target organ

toxicant, repeated exposure.

Aspiration hazard

Silver powder : No aspiration toxicity classification

Other

Silver powder : Repeated dose toxicity:

Ingestion/Rat 30 d NOAEL: 150 mg/kg



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No toxicologically significant effects were found., Information given is

based on data obtained from similar substances.

Dimethyl glutarate : Repeated dose toxicity:

Inhalation/Rat

Target Organs: Respiratory Tract

Respiratory tract damage

Dimethyl succinate : Repeated dose toxicity:

Inhalation/Rat

Target Organs: Respiratory Tract

Respiratory tract damage

Dermal/Rat

Target Organs: Respiratory Tract

Respiratory tract damage

Section 12 - Ecological Information

Ecotoxicity effects

Acute and prolonged toxicity to fish

Silver powder : LC50/96 h/Fish (unspecified species): 0.107 mg/l

Method: OECD Test Guideline 203

Information given is based on data obtained from similar substances.

Dimethyl glutarate : LC50/96 h/Lepomis macrochirus (Bluegill sunfish): 30.9 mg/l

LC50/96 h/Pimephales promelas (fathead minnow): 19.6 mg/l

Dimethyl succinate : LC50/96 h/Danio rerio (zebra fish): 50 - 100 mg/l

Method: OECD Test Guideline 203

Toxicity to aquatic plants

Silver powder : EC50/96 h/Pseudokirchneriella subcapitata (green algae): 0.19 mg/l

Information given is based on data obtained from similar substances.

NOEC/14 d/Algae: 0.0012 mg/l

Information given is based on data obtained from similar substances.

Dimethyl glutarate : EC50/96 h/Algae: 7.186 mg/l

Dimethyl succinate : EC50/72 h/Pseudokirchneriella subcapitata (green algae): > 10 mg/l

Acute toxicity to aquatic invertebrates

Silver powder : EC50/48 h/Ceriodaphnia dubia (water flea): 0.16 mg/l

Information given is based on data obtained from similar substances.

Dimethyl glutarate : EC50/48 h/Daphnia magna (Water flea): 1,275 mg/l : EC50/48 h/Daphnia magna (Water flea): 3,317.3 mg/l

Chronic toxicity to fish

Silver powder : NOEC/32 d/Oncorhynchus mykiss (rainbow trout): 0.0012 mg/l

Information given is based on data obtained from similar substances.

Chronic toxicity to aquatic Invertebrates

Silver powder : NOEC/21 d/Daphnia magna (Water flea): 0.00327 mg/l

Information given is based on data obtained from similar substances.

Persistence and degradability



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Silver powder Result: Not biodegradable Dimethyl glutarate Exposure time: 28 d

Biodegradation: 98 % Readily biodegradable.

Exposure time: 28 d Dimethyl succinate

Biodegradation: 74.1 % Readily biodegradable.

Bioaccumulation

Dimethyl glutarate Bioconcentration factor (BCF): 3.16

Bioaccumulation is unlikely.

Dimethyl succinate Bioaccumulation is unlikely.

Mobility in soil

No information available.

Other adverse effects

No information available.

Section 13 - Waste Disposal

If recycling is not practicable, dispose of in compliance with local regulations. Waste disposal methods

Never place unused product down any indoor or out door drain. Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

Dispose of in accordance with local regulations. Contaminated packaging

Section 14 - Transport Information

China Dangerous Goods Regulation

UN number 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper shipping name

(Silver)

9 Class Packing group Ш

IMDG

UN number 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping

name

(Silver)

Transport hazard class 9 Packing group Ш Marine pollutant yes

IATA

UN number 3082

UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name

(Silver)



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Transport hazard class : 9 Packing group : III

Matters needing attention : Not applicable

for transportation

Section 15 - Regulatory Information

Regulation on the Safety Management of Hazardous Chemicals

Production Safety Law of the People's Republic of China

Law of the People's Republic of China on Prevention and Treatment of Occupational Disease

Environmental Protection Law of the People's Republic of China

Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution

Marine Environment Protection Law of the People's Republic of China

Fire Protection Law of the People's Republic of China

Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)

Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)

General rule for classification and hazard communication of chemicals (GB13690)

Lists of Dangerous Goods (GB12268)

Dangerous goods classification (GB6944)

Common dangerous chemical storage rules (GB15603)

Packaging Symbols of Dangerous Goods (GB190)

National Hazardous Waste Inventory

Section 16 - Other Information

References

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Version

Significant change from previous version is denoted with a double bar.

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