

Safety Data Sheet

according to JIS Z 7253: 2019

Issue date: 6/16/2016 Version: 3.8 Revision date: 3/1/2024

1. Chemical product and company identification

Substance name : CHALINE E-790

Recommended use of the chemical and restrictions on use

Recommended use : Glidant

Restrictions on use General industrial use

Company information

Nissin Chemical Industry Co., Ltd.

101-0047 Japan

5-13, Uchikanda 1-chome, Chiyoda-ku, Tokyo, Japan

T +81-3-3295-3931 - F +81-3-3295-3929

2. Hazards identification

GHS classification

Physical hazards classification not possible **Explosives**

> Flammable gases No classification

classification not possible Aerosol

Oxidizing gases No classification No classification Gases under pressure

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

classification not possible

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which classification not possible

in contact with water emit

flammable gases

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible

Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) classification not possible

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas)

classification not possible

Acute toxicity

classification not possible

(inhalation:vapours)

Acute toxicity

classification not possible

(inhalation:dust/mist)

Skin corrosion/irritation

classification not possible

Serious eye damage/eye

classification not possible

irritation

Respiratory sensitization

classification not possible

Skin sensitization

Carcinogenicity

classification not possible

Germ cell mutagenicity

classification not possible

Reproductive toxicity

classification not possible classification not possible

Specific target organ toxicity

classification not possible

(single exposure)

classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

classification not possible

Hazardous to the aquatic environment, long-term

(chronic)

Hazardous to the ozone layer classification not possible

Precautionary statements

Prevention : Avoid release to the environment. (P273)

Wear protective gloves, protective clothing, eye protection, face

protection. (P280)

Response : Get medical advice/attention if you feel unwell. (P314)

Storage Store in a well-ventilated place. Keep cool. (P403+P235)

Disposal : Dispose of contents/container in accordance with

local/regional/national/international regulations. (P501)

3. Composition/information on ingredients

Distinction of substance or

Mixture

mixture

Generic name : Colloidal dispersion of Silicone-Acrylate based copolymer

| Name | Concentration (%) | Reference number in the gazette list | | CAS-No. |
|--|-------------------|--------------------------------------|-----------------------------------|-------------|
| | | CSCL No | ISHL No | |
| Silicone-Acrylate based copolymer | < 50 | Undisclosed | Undisclosed | Undisclosed |
| Cyclotetrasiloxane, octamethyl- (Impurity) | < 3 | (7)-475 | Existing Chemical Substance | 556-67-2 |
| Cyclopentasiloxane, decamethyl- (Impurity) | < 2 | (7)-475 | Existing Chemical Substance | 541-02-6 |
| Dodecamethylcyclohexasil oxane (Impurity) | < 1 | (7)-475 | Existing Chemical Substance | 540-97-6 |
| Water | < 60 | - | - | 7732-18-5 |

4. First aid measures

First aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation

: Remove the sufferers to fresh air places and keep themselves rest in an easy-to- breath position. Get medical advices immediately.

First-aid measures after skin contact

: Take off contaminated clothes, shoes and socks. And wash sticking parts off with soap and plenty of water. If the external changes are observed or the symptoms such as irritation or itchy appears, get medical advices immediately.

First-aid measures after eye contact

: Rinse immediately inner side of eyelid with plenty of water more than 20 minutes. Remove the contact lenses if possible. Get medical advices.

First-aid measures after ingestion

: Rinse mouth thoroughly with water and get medical attention immediately.

Never give anything through mouth to an unconscious person.

5. Fire fighting measures

Suitable extinguishing media : Water and alkali salt, Fire foam, Water, Dry chemical

Unsuitable extinguishing : Nothing in particular

media

edia

Fire hazard

Fire hazard : This product itself is not a flammable compound. But dry film after

evaporating water is flammable.

Hazardous decomposition : The hazardous gasses such as carbon mono- and di-oxide and

products in case of fire

aldehyde group are generated at the Product's combustion.

Firefighting instructions

Firefighting instructions

: Cut off ignition sources to a fire origin and fight a fire employing a

suitable fire extinguishing agent.

Cool by water spray around the fire site to prevent the fire

extension.

Personal protection (Emergency response)

response)

Personal protection (Emergency : Wear suitable protective tools such as goggles, boots, gloves, and body suits as well as a self-contained breathing apparatus to

avoid direct contact. Fight a fire from the windward.

Other information

: One of the general procedures for chemical fires may be applied. Use appropriate extinguishing measures considering the local circumstances and environments. Never inhale such smoke, etc. as are generated at fire and/or explosion. Use water spray to cool unopened containers. Recover the water contaminated with fire extinguishing agents separately. Never discharge this water into drains. Fire residues and contaminated fire extinguishing water must be disposed of complying with local regulations.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Wear a self-contained breathing apparatus and suitable chemical

protective clothes and tools, and work from windward.

For emergency responders

Protective equipment : Wear suitable protective tools such as goggles, boots, gloves,

body suits and a self-contained breathing apparatus according to

circumstances to avoid inhalation of and direct contact with

materials in question.

: Clear off all of ignition sources immediately. Emergency procedures

Work from windward.

Stop release.

Environmental precautions

Environmental precautions : Never release this products to waters and soil.

If the products spill into rivers, lakes or marshes, inform the fire

station or authorities of the local governments.

Methods and Equipment for Containment and Cleaning up

For containment : When the releasing materials are large, prevent spreading by

cover with banking and the like and vacuum and recover with a

pump,etc.

When the releasing materials are small, recover as mortar after

mix with perlite, dirt, sawdust and/or the like.

Methods for cleaning up : Clean up the surroundings of the releasing area with water after

recovery and recover the contaminated water as well.

Prevention Measures for

Secondary Accidents

: If the products spill into rivers, lakes or marshes, inform to the fire stations, authorities relating environment disruption, River Bureau, Water Supply Bureau, etc. of local governments, if necessary.

Other information : Take care of slip as released area becomes easy to slip.

7. Handling and storage

Handling

Technical measures : As polyvalent metal ions such as iron, copper, zinc, aluminum, etc.

may cause collering, gelling, etc, pay care and attention for choice

of storage installations, pipework, blenders and the like.

Use in well-ventilated areas.

Precautions for safe handling : Wear suitable personal protecting tools such as protecting gloves,

protecting glasses, etc. according to circumstances to avoid to

contact with skin or eye(s).

Never treat containers roughly such as overturning, falling,

dragging, impacting and the like.

Prevents handling of

incompatible substances or

mixtures

: No information.

Hygiene measures

: Wash hands at the end of each work shift before eating, smoking

or using the toilet.

Never eat, drink nor smoke during work.

Local and general ventilation

: In case of the work with generation of spray mist or vapor, install

local air exhausters.

Storage

Storage conditions : Storage temperature must be kept not less than 5°C and never

exceed 35°C.

Store indoor, preventing from sunlight and freezing.

Avoid dust, water, etc. coming into opened containers in use.

Material used in

packaging/containers

: Use the containers having water resistance and durability, and $% \left(1\right) =\left(1\right) \left(1\right) \left($

avoid from contact with metals as possible.

In case of translocation, use stainless or polyethylene containers

to prevent corrosion.

Technical measures : Keep containers stoppled tightly after use to prevent forming film.

Incompatible materials : Strong oxidizers. Reactive metals. (sodium, calcium, zinc, etc.).

Dehydrating agent.

8. Exposure controls / Personal protection equipment

| CHALINE E-790 | | |
|--------------------------------------|-------------------|--|
| Japan - Occupational Exposure Limits | | |
| Japan administration level | No data available | |
| Exposure limits (JSOH) | No data available | |
| Exposure limits (ACGIH) | No data available | |

Appropriate engineering controls : Install sealing equipments or local exhaust equipments at indoor work,

Express the place clearly where safety shower(s) and hand and eye

washer(s) are equipped.

Protective equipment

Respiratory protection : It is needless under normal conditions at well ventilated place, In

case of insufficient ventilation, wear suitable respiratory equipment

Hand protection : Impermeable protect gloves.

Eye protection : goggles style protective glasses

Skin and body protection : Protective boots, protective clothes.

9. Physical and chemical properties

Physical state : Liquid
Colour : milky

Odour : No data available pH : No data available Melting point : No data available Freezing point : No data available

Boiling point : $\approx 100 \, ^{\circ}\text{C}$

Flash point : None

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : No data available
Vapour pressure : No data available
Relative vapour density at : No data available

20°C

Relative density : ≈ 1.1

Density : No data available
Relative gas density : No data available
Solubility : Miscible with water

Partition coefficient n-

octanol/water (Log Pow)

: No data available

Explosive limits (vol %) : No data available Explosive limits (g/m³) : No data available Viscosity, kinematic No data available Particle size No data available

10. Stability and reactivity

Reactivity No reactivity with water

Chemical stability Stable under room temperature.

Possibility of hazardous

reactions

No information

Conditions to avoid : No information : No information Incompatible materials

Hazardous decomposition

products

: The hazardous gasses such as carbon mono- and di-oxide and

aldehyde group are generated at the Product's combustion.

No data available

11. Toxicological information

No data available Acute toxicity (oral) : (as a product)

Acute toxicity (dermal) No data available Acute toxicity (gas) -(as a product)

Description

Acute toxicity (vapour) -: (as a product) No data available

Description

Acute toxicity (dust, mist) -: (as a product)

: (as a product)

No data available

Description

Acute toxicity (mist) -(as a product) No data available

Description

Skin corrosion/irritation : (as a product) No data available

Serious eye damage/irritation : (as a product) No data available

Respiratory sensitization : (as a product) No data available Skin sensitization (as a product) No data available

Germ cell mutagenicity : (as a product) No data available

Carcinogenicity No data available : (as a product)

Reproductive toxicity : (as a product) No data available STOT-single exposure (as a product) No data available

STOT-repeated exposure : (as a product) No data available Aspiration hazard : (as a product) No data available

12. Ecological information

Ecotoxicity

Ecotoxicity : (as a product) No data available
Hazardous to the aquatic : (as a product) No data available

environment, short-term

(acute)

Hazardous to the aquatic : (as a product) No data available

environment, long-term

(chronic)

Persistence and degradability

Persistence and degradability : (as a product) No data available

Biochemical oxygen demand : (as a product) No data available

(BOD)

Chemical oxygen demand : (as a product) No data available

(COD)

Bioaccumulative potential

Bioaccumulative potential : (as a product) No data available

Partition coefficient n- : (as a product) No data available

octanol/water (Log Pow)

Mobility in soil

Mobility in soil : (as a product) No data available

Partition coefficient n- : (as a product) No data available

octanol/water (Log Pow)

Ecology - soil : (as a product) No data available

Hazardous to the ozone layer

Ozone : (as a product) No data available
Other adverse effects : No additional information available

13. Disposal considerations

Ecological information : Farm out to professional disposal treating traders in

compliance with requirements of the nation and local

governments.

Contaminated container and : Farm out dispose of the contents and packing materials to

packaging professional disposal treating traders in compliance with

requirements of the nation and local governments.

In case of disposal of empty container, dispose after complete

removal in the container.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : Not applicable
Proper Shipping Name (IMDG) Not applicable
Packing group (IMDG) : Not applicable
Transport hazard class(es) : Not applicable

(IMDG)

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) : Not applicable

(IATA)

Regulations in Japan

Other information : At transportation, make sure of no leakage of packings, load

the products without broken bags, falling, injury, etc, and

prevent load

collapses surely, See "7 Handling and storage"

15. Regulatory information

REACH SVHC : Contains a substance on the REACH candidate list in

concentration ≥ 0.1%: Octamethylcyclotetrasiloxane (EC 209-136-7, CAS 556-67-2), Decamethylcyclopentasiloxane (CAS 541-02-6), Dodecamethylcyclohexasiloxane (CAS 540-97-6)

16. Other information

Data sources : Ref. 1."Safety Data Sheet" by Raw Material Manufacturers.

2.GHS Sixth Revised Edition. 3.NITE GHS Results of the

Classification.

Other information : The Products was developed for general industries' use. When

applying to specific uses, it is hoped to confirm its safety by yourselves prior to the use. Prior to use or handle of this products, keep all people who handle this product informed of the information of this SDS and other information concerning safety and disasters. The description of this SDS is based upon materials, information and data which can be procured at present. However, we do not warrant any guarantee regarding the contents, physical and chemical properties, hazards and the like.

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