

Revision Date:
12.11.2019Spec ID:
900000052196Date of last issue: 19.08.2016
Date of first issue: 19.08.2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Adhesive F-3

Manufacturer or supplier's details

Company name of supplier : HISAKA WORKS, LTD.

Address : 2-1-48, HIGASHI-KONOIKECHO HIGASHI-OSAKA CITY OSAKA 578-0972, JAPAN

Telephone : +81-72-966-9606

Emergency telephone number : +81-72-966-9606

Recommended use of the chemical and restrictions on useRecommended use : For general industrial use

2. HAZARDS IDENTIFICATION**GHS Classification**

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

SAFETY DATA SHEET

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Revision Date:
12.11.2019

Spec ID:
900000052196

Date of last issue: 19.08.2016
Date of first issue: 19.08.2016

Organic peroxides	: Not applicable
Corrosive to metals	: Classification not possible
Acute toxicity (Oral)	: Classification not possible
Acute toxicity (Dermal)	: Classification not possible
Acute toxicity (Inhalation - gas)	: Not applicable
Acute toxicity (Inhalation - vapor)	: Classification not possible
Acute toxicity (Inhalation - dust and mist)	: Classification not possible
Skin corrosion/irritation	: Classification not possible
Serious eye damage/eye irritation	: Classification not possible
Respiratory sensitisation	: Classification not possible
Skin sensitisation	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
Specific target organ toxicity - single exposure	: Classification not possible
Specific target organ toxicity - repeated exposure	: Classification not possible
Aspiration hazard	: Classification not possible
Acute aquatic toxicity	: Classification not possible
Chronic aquatic toxicity	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

GHS label elements

Hazard pictograms	: Not Applicable
Signal word	: Not Applicable
Hazard statements	: Not Applicable
Precautionary statements	: Prevention: Not Applicable Response: Not Applicable

Revision Date:
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Date of last issue: 19.08.2016
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Storage:

Not Applicable

Disposal:

Not Applicable

Other hazards which do not result in classification

When heated, the vapors/fumes given off may cause respiratory tract irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical Name	CAS-No.	Concentration(%)
Neodecanoic acid, ethenyl ester, polymer with ethene and ethenyl acetate	Trade secret	52-56
Water	7732-18-5	44-48
emulsifier	Trade secret	Trade secret

4. FIRST AID MEASURES

- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Administer oxygen if breathing is difficult.
Apply artificial respiration if victim is not breathing.
Rinse nose, mouth and throat with water.
Keep victim warm with a blanket etc.
Get immediate medical advice/attention.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- In case of skin contact : Gently wash with plenty of soap and water.
Remove/Take off immediately contaminated clothing and shoes.
If skin irritation or rash occurs: Get medical advice/attention.
- In case of eye contact : Do not rub eye.
Hold eyelids apart.
Begin to rinse with water as soon as possible and rinse cautiously for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.
- If swallowed : Rinse mouth.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep victim warm with a blanket etc.
Get immediate medical advice/attention.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Administer oxygen if breathing is difficult.
Apply artificial respiration if victim is not breathing.

Revision Date:
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Protection of first-aiders : During rescue operations, wear protective equipment (see "8. Exposure control/personal protection").

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical powder
Regular foam
Carbon dioxide
Dry sand

Unsuitable extinguishing media : Straight streams

Specific hazards during firefighting : Cool cylinders/containers with an appropriate cooling means, paying heed to incompatible hazardous substances (see "10. Stability and reactivity").
The combustion gas may contain an irritating, corrosive and/or toxic gas.
Harmful gases (see "10. Stability and reactivity") and metal oxide fumes may be released by fire and may cause dizziness, suffocation, or other health hazards.
Heating may cause cylinders/containers to explode or to rocket.

Specific extinguishing methods : Evacuate immediately before the cylinder/container temperature higher than their rupture risk level.
Keep upwind.
Fight fire from a protected location.
Keep unauthorized personnel away.
In case of a large fire and large quantities: Evacuate the area and extinguish the fire from a distance in accordance with the risk of explosion.
Protecting other nearby combustibles before they catch fire:
Remove cylinders/containers or sprinkle them with water, etc., if this can be done safely.
Protecting the product from external fire: Remove product-containing cylinders/containers to a safe place, or cool the nearby equipment with water, etc., if this can be done safely.
If the fire cannot be stopped, let it burn itself out while cooling with water spray to prevent the fire from spreading.
Confining and smothering fire is preferable.
Stop leak if possible without any risk.
Dike fire water for later disposal; do not spread the material.
Cool containers with flooding quantities of water until well after fire is out.

Special protective equipment for firefighters : Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA).
Wear flame-resistant or fireproof clothes, with face shield, helmet and gloves.

Revision Date:
12.11.2019

Spec ID:
900000052196

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Personal precautions
Use personal protection recommended in "8. Exposure control/personal protection".
Wear appropriate protective equipment (see "8. Exposure control/personal protection") to avoid contact of droplets with the skin, or inhalation of mist or vapors.
Emergency procedures
Evacuate people who are downwind, and keep upwind while working.
Keep unauthorized personnel away.
If the surrounding area may be affected (including health impairment), warn the nearby residents.
Remove immediately all ignition sources nearby.
Form large safety zone.
Prevention of secondary hazards
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures")
- Environmental precautions : Avoid release to the environment.
- Methods and materials for containment and cleaning up : Collect the leakage promptly.
Stop leak if possible without any risk.
Dike far ahead of liquid spill for later disposal.
Absorb remaining liquid in dry earth, sand or other non-combustible material and remove to safe place.
Use explosion-proof electrical/ventilating/lighting/equipment.
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Consult with an expert when collecting the leakage.
Collect leakage after taking measures for safe handling (see "7. Handling and storage").
See "13. Disposal considerations".

7. HANDLING AND STORAGE

- Technical measures : ELIMINATE all ignition sources.
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.
Use explosion-proof electrical/ventilating/lighting/equipment.
Prevent generation of mist.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
- Local/Total ventilation : Ventilate by a system of local and/or general exhaust.
- Advice on safe handling : Keep away from incompatible materials (see "10. Stability and reactivity").

Revision Date:
12.11.2019

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- Conditions for safe storage : Keep in a fire-proof designed place.
Store under controlled lighting and appropriate ventilation.
- Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.
Ground/bond container and receiving equipment.
Keep away from direct sunlight.
Store in a well-ventilated place.
See "10. Stability and reactivity"
Protect from freezing and direct sunlight.
Keep container tightly closed. Store in a well-ventilated cool place (5 - 30 °C).
- Packaging material : Suitable material: Polyethylene (PE)
Unsuitable material: No information available.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use a local and/or general ventilation system.
Provide facilities to wash hands, eyes, and the body at the working place.

Personal protective equipment

- Respiratory protection** : Be sure to use breathing protective equipment only chosen according to specific regulatory requirements after a risk assessment.
When an emergency or leak occurs, wear air respirator or positive pressure self-contained breathing apparatus (SCBA).
- Hand protection** : Be sure to use hand protective equipment only chosen according to specific regulatory requirements after a risk assessment.
: impervious gloves
- Eye protection** : Be sure to use eye protective equipment only chosen according to specific regulatory requirements after a risk assessment.
chemical safety goggles or glasses and full face shield.
- Skin and body protection** : Be sure to use personal protective equipment (PPE) only chosen according to specific regulatory requirements after a risk assessment.
Suitable impervious protective clothing, including protective footwear, gloves, lab coat, apron or coveralls.
- Hygiene measures** : Do not inhale this product.
Wash face and hands thoroughly after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Emulsion
Colour	:	Milky white
Odour	:	Slight odour
pH	:	4.0 - 7.0
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Flash point	:	Method: Tag closed cup No data available (Test flame was extinguished by non-combustible vapor generated from the sample during the test.)
Evaporation rate	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.0 (25 °C)
Density	:	no data available
Water solubility	:	no data available
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available

10. STABILITY AND REACTIVITY

Chemical stability	:	no data available
Possibility of hazardous reactions	:	Fire may produce metal oxide(s) dust. Mist may form an explosive mixture with air regardless of temperature. Open flame Mechanical spark Electrical spark Welding spark

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		Hot surface(s) heating Friction heat Electrostatic discharge Strong bases : may cause a fire and/or explosion Strong oxidizers Strong acids : may cause a fire, explosion, and generation of a toxic gas
Conditions to avoid	:	Open flame Mechanical spark Electrical spark Welding spark heating Hot surface(s) Electrostatic discharge
Incompatible materials	:	Strong oxidizers Strong acids Strong bases
Hazardous decomposition products	:	Carbon monoxide Carbon dioxide Hydrocarbons soot Nitrogen Oxides Sulfur oxides. May generate fine particles containing metal components.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Remarks: no data available

Serious eye damage/eye irritation

Product:

Remarks: no data available

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Respiratory or skin sensitisation**Product:**Test Type: Respiratory sensitisation
Remarks: no data availableTest Type: Skin sensitisation
Remarks: no data available**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: no data available

Genotoxicity in vivo : Remarks: no data available

Carcinogenicity**Product:**

Remarks: no data available

Reproductive toxicity**Product:**

Effects on fertility : Remarks: no data available

Effects on foetal development : Remarks: no data available

STOT - single exposure

See Acute toxicity ("11.Toxicological information").

STOT - repeated dose toxicity**Product:**

Remarks: no data available

Aspiration toxicity**Product:**

no data available

Further information**Product:**

Remarks: When heated, the vapors/fumes given off may cause respiratory tract irritation.

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12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effectsOzone-Depletion Potential : Regulation: UNEP - Handbook for the Montreal Protocol on Substances that Deplete the Ozone Layer
Remarks: not listed to the Montreal Protocol

13. DISPOSAL CONSIDERATIONS**Disposal methods**: Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as dangerous goods

IATA-DGR

Not regulated as dangerous goods

IMDG-Code

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC CodeNot applicable for product as supplied.

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12.11.2019Spec ID:
900000052196Date of last issue: 19.08.2016
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Special precautions for user

Remarks

: Make sure no damage, corrosion, leaks, and so on on the container(s) before transportation.
Load not to fall, drop, damage the product, and make sure to take measures to secure the loaded products.
Equip in automobile or ship for transportation with protective equipment (gloves, eyeglasses, mask, etc), and fire extinguisher, tools necessary for emergency.

15. REGULATORY INFORMATION

Please follow local regulations.

16. OTHER INFORMATION

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.