

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

KJR-651E

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code None.

Synonyms None.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Preparation Silicone junction coating resin

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Shin-Etsu Chemical Co., Ltd., Organic Electronics Materials Dept.,
Electronics Materials Div.,
6-1, Ohtemachi 2-chome, Chiyoda-ku,
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1.4. Emergency telephone number +4161 402 0023 or +813 3246 5231

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Version GHS 1

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)

Skin corrosion/irritation, Cat. 2, H315
Serious eye damage/eye irritation, Cat. 2, H319
Reproductive toxicity, Cat. 1B, H360
Specific target organ toxicity (single exposure, inhalation), Cat. 3, H335

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Repr. Cat. 2; R61
Xi; R36/37/38

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word
Hazard Statements

Danger
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.

Precautionary statements

P201: Obtain special instructions before use.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280c: Wear protective gloves/ eye protection/ face protection.
P281: Use personal protective equipment as required.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/ container to an approved waste disposal plant.

Additional advice

None.

GHS product identifier

N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone, CAS-No. 872-50-4

Labelling according to Directives 67/548/EEC or 1999/45/EC



T - Toxic.

R-phrases(s)

R61: May cause harm to unborn child.
R36/37/38: Irritating to eyes, respiratory system and skin.

S-phrases(s)

S23: Do not breathe vapour
S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53: Avoid exposure - obtain special instructions before use.

S36/37: Wear suitable protective clothing and gloves.

Hazardous component(s) which must be listed on the label

N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone, CAS-No. 872-50-4, EC-No. 212-828-1

2.3. Other hazards

No hazards to be especially mentioned.

3. Composition/information on ingredients

Chemical characterization

Preparation. Organopolysiloxane mixture.

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	75% - 90%	Repr. 1B H360_DD, Eye Irrit. 2 H319, STOT SE 3 H335, Skin Irrit. 2 H315 [Repr. 1B H360: C ≥ 5 % STOT SE 3 H335: C ≥ 10 %]	T; R-61-36/37/38	872-50-4	

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Move to fresh air in case of accidental inhalation of vapours. Consult a physician after significant exposure.
Skin contact	Remove immediately adhering matter. Wash off immediately with soap and plenty of water. Consult a physician for severe cases.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Foam. Dry chemical.

Extinguishing media which must not be used for safety reasons None.

5.2. Special hazards arising from the substance or mixture During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires.

Specific methods No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Use personal protective equipment.

Advice for emergency responders Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal.

7. Handling and storage

7.1. Precautions for safe handling Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources of ignition. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours/dust.

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed. Keep at temperatures below 5 °C. Keep out of reach of children. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

7.3. Specific end use(s) No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

1-Methyl-2-pyrrolidone (CAS 872-50-4)

EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values - STELs	20 ppm STEL 80 mg/m3 STEL
EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values - TWAs	10 ppm TWA 40 mg/m3 TWA
United Kingdom - Workplace Exposure Limits (WELs) - STELs	75 ppm STEL 309 mg/m3 STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	25 ppm TWA 103 mg/m3 TWA

8.2. Exposure controls

Occupational exposure controls Ensure adequate ventilation, especially in confined areas.

Personal protection equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Goggles. Safety glasses. Eye wash bottle with pure water.

Skin and body protection Chemical resistant apron.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	Brown.
Odour	Solvent.
Odour Threshold	No information available.

pH:	not applicable
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	84 °C (Closed cup)

Evaporation Rate:	No information available.
Flammability:	No information available.

Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapor density:	No information available.
Relative density:	1.10 (25°C)
Water solubility:	insoluble
Partition coefficient (n-octanol/water):	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Combustion/explosion hazards:	not hazardous
Oxidizing properties:	None

9.2. Other information

10. Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	1-Methyl-2-pyrrolidone (CAS 872-50-4) Dermal LD50 Rabbit 5000 mg/kg Dermal LD50 Rat 2500 mg/kg Inhalation LC50 Rat 3.1 mg/L 4 h Oral LD50 Rat 3598 mg/kg
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Irritating to eyes.
Respiratory / Skin Sensitisation	No data available.
Carcinogenicity	No data available.
Germ cell mutagenicity	No data available.
Reproductive toxicity	May damage the unborn child.

Specific target organ toxicity (single exposure)	May cause irritation of respiratory tract.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

12. Ecological information

12.1. Toxicity No data is available on the product itself.

1-Methyl-2-pyrrolidone (CAS 872-50-4)

EU - Ecolabel (66/2010) - Detergent Ingredient Database - Anaerobic Degradation	The ingredient has not been tested.
EU - Ecolabel (66/2010) - Detergent Ingredient Database - Aerobic Degradation	Readily biodegradable according to OECD guidelines.
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 <i>Lepomis macrochirus</i> : 832 mg/L [static] 96 h LC50 <i>Leuciscus idus</i> : 4000 mg/L [static] 96 h LC50 <i>Pimephales promelas</i> : 1072 mg/L [static] 96 h LC50 <i>Poecilia reticulata</i> : 1400 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data	48 h EC50 <i>Daphnia magna</i> : 4897 mg/L
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	72 h EC50 <i>Desmodesmus subspicatus</i> : >500 mg/L
Ecotoxicity - Avian - Acute Oral Toxicity Data	LD50 <i>Colinus virginianus</i> : 2212 mg/kg
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products Can be landfilled after chemical and physical treatment, when in compliance with local regulations.

Contaminated packaging Empty containers can be landfilled after cleaning, when in compliance with local regulations.

14. Transport information

ADR/RID Not required.
IMO Not required.
ICAO Not required.
Further Information Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).

1-Methyl-2-pyrrolidone (CAS 872-50-4)

EU - REACH (1907/2006) - List of Registered Substances Present
EU - REACH (1907/2006) - Submitted Annex XV Dossiers for Proposals for Substances of Very High Concern Annex XV dossier submitted by ECHA on request of the EU Commission (CMR)

15.2. Chemical safety assessment Not required.

16. Other information

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)

Full text of phrases referred to under sections 2 and 3 H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.
H360D: May damage the unborn child.

R36/37/38: Irritating to eyes, respiratory system and skin.
R61: May cause harm to unborn child.

Instructions for use Restricted to professional users.

Disclaimer

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. It 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.