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# SAFETY DATA SHEET

according to UK REACH Regulation

**HIROKO**

code 73578

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier:

**Gel Polish - HIROKO** code 73578

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

**Use of the substance/mixture**

For professional use only

### 1.3. Details of the supplier of the safety data sheet:

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP Regulation**

Skin Corr. 1C; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

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## SECTION 2: Hazards identification

### 2.2. Label elements

GB CLP Regulation

**Hazard components for labelling :**

Polyurethane acrylate Oligomer

Hydroxypropyl Methacrylate

2-hydroxyethyl methacrylate

Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

**Signal word :**

Danger.

**Pictograms:**



**Hazard statements:**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

### 2.3 Other hazards:

No information available.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures: Hazardous components

| CAS No     | Chemical name                                             |              |          | Quantity    |
|------------|-----------------------------------------------------------|--------------|----------|-------------|
|            | EC No                                                     | Index No     | REACH No |             |
|            | Classification (GB CLP Regulation)                        |              |          |             |
|            | Polyurethane acrylate Oligomer                            |              |          | 55 - < 60 % |
|            | Skin Sens. 1B; H317                                       |              |          |             |
| 27813-02-1 | Hydroxypropyl Methacrylate                                |              |          | 5 - < 10 %  |
|            | 248-666-3                                                 |              |          |             |
|            | Skin Corr. 1C, Skin Sens. 1B; H314 H317                   |              |          |             |
| 868-77-9   | 2-hydroxyethyl methacrylate                               |              |          | 5 - < 10 %  |
|            | 212-782-2                                                 | 607-124-00-X |          |             |
|            | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 |              |          |             |
| 84434-11-7 | Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate            |              |          | 5 - < 10 %  |
|            | 282-810-6                                                 |              |          |             |
|            | Skin Sens. 1B; H317                                       |              |          |             |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE.**

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures:

#### Hazardous components

| CAS No   | EC No                                    | Chemical name               | Quantity   |
|----------|------------------------------------------|-----------------------------|------------|
|          | Specific Conc. Limits, M-factors and ATE |                             |            |
| 868-77-9 | 212-782-2                                | 2-hydroxyethyl methacrylate | 5 - < 10 % |
|          | oral: LD50 = 5050 mg/kg                  |                             |            |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink 1 glass of water.

### 4.2 Most important symptoms and effects, both acute and delayed:

No information available.

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

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Other information.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls



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## SECTION 8: Exposure controls/personal protection

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

Colour:

#### Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: not determined

Flash point: not determined

#### Flammability

Solid/liquid: not applicable

Gas: not applicable

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## SECTION 9: Physical and chemical properties

### Explosive properties

The product is not: Explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: not determined

Decomposition temperature: not determined

pH-Value: not determined

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: not determined

Density: not determined

Relative vapour density: not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

#### Further Information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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## SECTION 10: Stability and reactivity

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

| CAS No   | Chemical name               |                 |         |        |        |
|----------|-----------------------------|-----------------|---------|--------|--------|
|          | Exposure route              | Dose            | Species | Source | Method |
| 868-77-9 | 2-hydroxyethyl methacrylate |                 |         |        |        |
|          | oral                        | LD50 5050 mg/kg | Rat     |        |        |

#### **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1 Toxicity

The product is not: Ecotoxic.

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| SECTION 12: Ecological information |                             |               |           |                     |        |        |
|------------------------------------|-----------------------------|---------------|-----------|---------------------|--------|--------|
| CAS No                             | Chemical name               |               |           |                     |        |        |
|                                    | Aquatic toxicity            | Dose          | [h]   [d] | Species             | Source | Method |
| 868-77-9                           | 2-hydroxyethyl methacrylate |               |           |                     |        |        |
|                                    | Acute fish toxicity         | LC50 227 mg/l | 96 h      | Pimephales promelas |        |        |

## 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No   | Chemical name               | Log Pow |
|----------|-----------------------------|---------|
| 868-77-9 | 2-hydroxyethyl methacrylate | 0,47    |

## 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

- 14.1. **UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. **UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. **Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. **Packing group:** No dangerous good in sense of this transport regulation.

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## SECTION 14: Transport information

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 7,5 %

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## SECTION 16: Other information

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

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## SECTION 16: Other information

IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Corr. 1C; H314 | Calculation method       |
| Eye Dam. 1; H318    | Calculation method       |
| Skin Sens. 1; H317  | Calculation method       |

### Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*