

## Material Safety Data Sheet

### 1. Product and Company Identification

Product name :HI-GLOSS #310F

Name of supplier :SOLAR CO., LTD.

Address :1-7, Nunobiki-cho-2-chome, Chuo-ku, Kobe, Hyogo-Pref. 651-0097 JAPAN

Division :R & D DEPT.

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Product code(MSDS NO) :EN100850-2

### 2. Hazards Identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Skin corrosion/irritation : Category 3

Eye damage /eye irritation : Category 2

Specific target organ toxicity-single exposure : Category 1

Specific target organ toxicity - single exposure; Respiratory tract irritation  
Category 3

Specific target organ toxicity-repeated exposure : Category 1

Specific target organ toxicity-repeated exposure : Category 2



Signal word :Danger

HAZARD STATEMENT

Causes mild skin irritation.

Causes eye irritation

Causes damage to liver

May cause respiratory irritation

Causes damage to lung through prolonged or repeated exposure.

May causes damage to blood, CNS(central nervous system), kidney and liver through  
prolonged or repeated exposure.

PRECAUTIONARY STATEMENT

Prevention

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

Wash contaminated parts thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Wear eye protection/face protection.

Response

Get medical advice/attention if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position  
comfortable for breathing.

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

IF exposed: Call a POISON CENTER or doctor/physician.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

**Storage**

Store locked up.

Store in well-ventilated place. Keep container tightly closed.

**Disposal**

Dispose in accordance with local/national regulation.

Not applicable to Japan class name

**3. Composition/Information on Ingredients**

Substance/Preparation :Preparation

<b>Ingredient name</b>	<b>content(%)</b>	<b>CAS No.</b>	<b>PRTR law No, Japan</b>
Aluminium oxide	30 - 35	1344-28-1	
Abrasive	5 - 10		
Water	35 - 40	7732-18-5	
Solvent	1 - 5		
Activator	1 - 5		
Diethanolamine	0.1 - 1	111-42-2	
Additive	10 - 15		

**4. First-Aid Measures****IF INHALED :**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

**Skin contact**

Never use solvent or thinner.

Wash with plenty of soap and water.

If you observe unusual symptom, have irritation/pain and/or feel unwell, seek medical advice.

**IF IN EYES :**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED :**

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

**5. Fire-Fighting Measures****Suitable extinguishing media**

In case of fire, use water mist, foam, dry powder or CO2.

**Specific fire-fighting measures**

Use appointed fire extinguisher.

Remove flammable matters quickly from nearby.

Apply water from a safe distance to cool and protect surrounding area.

**Special protective equipment and precautions for fire-fighters**

Fire extinguishing work has to be done from windward.

Wear proper protective equipment.

**6. Accidental Release Measures****Personnel precautions, protective equipment and emergency procedures**

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Keep unauthorized personnel away.

#### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

#### Methods and materials for containment and cleaning up

Place in a covered container.

Use non-sparking tools to collect absorbed material.

#### Preventive measures for secondary accident

Prepare extinguishers before catching fire.

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### 7. Handling and Storage

#### Precautions for safe handling

##### Preventive measures

(Exposure Control for handling personnel)

Use personal protective equipment as required.

(Protective measures against fire & explosion)

Take precautionary measures against static discharge.

#### Safety Measures/Incompatibility

Do not handle until all safety precautions have been read and understood.

Handle in good ventilation.

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

##### Recommendation for storage

Keep container tightly closed.

Protect from sunlight. Store in a well-ventilated place.

Do not freeze.

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### 8. Exposure Control/Personal Protection

Control parameters e.g. occupational exposure limit values or biological limit values

#### Adopted value

(Aluminium oxide)ACGIH (2007) TWA: 1 mg/m<sup>3</sup>(R) (Pneumoconiosis; LRT irr; neurotoxicity)

(Diethanolamine)ACGIH (2008) TWA: 1mg/m<sup>3</sup>(IFV) (Skin)(Liver & kidney dam)

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Exhaust/ventilator should be available.

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

##### Respiratory protection

Wear respiratory protection.

##### Hand protection

Wear protective gloves.

##### Eye protection

Wear eye/face protection.

##### Skin and body protection

Wear protective gloves/clothing

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### 9. Physical and Chemical Properties

#### Physical properties

Appearance :liquid

Color :white

pH :ca 9.9

Flash point :>100 (Seta closed style) (on the analogy of similar article)

Specific gravity :ca 1.35

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### 10. Stability and Reactivity

#### Chemical stability

Stable under normal storage/handling conditions.

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### 11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

Acute toxicity

Oral toxicity component(s) data

(Diethanolamine)rat LD50 710 mg/kg

Dermal toxicity component(s) data

(Diethanolamine)rabbit LD50 12200 mg/kg

Irritant properties

Skin corrosion/Irritation component(s) data

(Diethanolamine)rabbit 50 mg open ; MILD 500 mg/24H ; MILD

Serious eye damage /eye irritation

Eye damage/irritation component(s) data

(Diethanolamine)rabbit 5.5 g ; SEVERE 0.75 mg/24H ; SEVERE

Carcinogenic effects

(Diethanolamine)IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.

(Diethanolamine)ACGIH-A3(2008) : Confirmed Animal Carcinogen with Unknown

Relevance to Humans

(Aluminium oxide)ACGIH-A4(2007) : (Not Classifiable as a Human Carcinogen)

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### 12. Ecological Information

Ecotoxicity

Aquatic toxicity(component(s) data)

(Diethanolamine)Crustacea (Daphnia) LC50=2.15mg/L/48hr (AQUIRE, 2003)

Water solubility

(Aluminium oxide)none (ICSC, 2000)

(Diethanolamine)very good (ICSC, 2002)

Persistence and degradability

(Diethanolamine)TOC\_Degradation : 96.7%(Registered chemicals safety check & review data, Japan)

Bioaccumulative potential

(Diethanolamine)log Pow=-1.43 (PHYSPROP Database, 2005)

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### 13. Disposal Considerations

Description of waste residues and information on their safe handling and methods of disposal

Avoid release to the environment (- if this is not the intended use).

Dispose of contents/container in accordance with local/national regulation.

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### 14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

Noxious Liquid ; Cat. Y :Diethanolamine

Non Noxious :Water

Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

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### 15. Regulatory Information

Industrial Safety and Health law, Japan

Chemical name et al should be informed :Aluminium oxide;Diethanolamine

Fire protection law, Japan

Listed flammables : flammable liquids ; (limited qty) 2m3

Air cargo control law, Japan

Dangerous goods forbidden from transport

Diethanolamine

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## 16. Other Information/References

## Reference Book

Recommendations on the TRANSPORT OF DANGEROUS GOODS 15th edit. UN  
2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2008 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/monoeval/grlist.html>

JIS Z 7250 2005

Supplier's SDS

ezCric(Retrieval System/Japan Chemical Database Ltd.)

## Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test