



Material Safety Data Sheet

Product

JPS-34

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1-1. Product identifier JPS-34

1-2. Identification of the supplier of the substance and uses advised against

Recommended application : Photo resist Strip

Restriction of application : Only Industrial Application

1-3. Identification of the supplier

Company Name : JAEWON INDUSTRIAL CO., LTD.

Address : Head office

Address: 159-3, Nakpo-dong, Yeosu-city, Jeollanam-do, Korea

Tel : +82-61-690-9200

Fax : +82-61-686-3199

Seoul office

Address: Trade Tower RM 4008, World Trade center

Tel : +82(0)2-6000-6787

Fax : +82(0)2-6000-6885

Web : www.jaewon.co.kr

R&D Center : Rm201, K-1 Bd., 20-5 Seokwoo-dong, Hwaseong-si, Gyeonggi-do, Korea

Head office: +82-61-690-9200

R&D Center: +82-31-831-9767

Emergency phone number :

2. HAZARDS IDENTIFICATION

2-1. GHS classification of the substance/mixture and any national or regional GHS classification

Metal corrosive : Category 1

Acute Toxicity (Oral) : Category 4

Skin Corrosion /Skin Irritation : Category 2

Serious Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity (Single Exposure) : Category 2

2-2. GHS label elements, including precautionary statements

Symbols



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H371 May cause damage to organs .

Precautionary statements

Prevention

P234 Keep only in original container.

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

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

		P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response		P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. 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. Continue rinsing. P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. P321 Specific treatment P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P390 Absorb spillage to prevent material damage.
Storage		P405 Store locked up. P406 Store in corrosive resistant/... container with a resistant inner liner.
Disposal		P501 Dispose of contents/container to an approved.
2-3 NFPA		
Health	4	
Fire	1	
Reaction	0	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Synonym	CAS No	wt %
Additive #1	-	-	0.1 ~ 5.0
Additive #2	-	-	5.0 ~ 15.0
Dimethyl sulfoxide	SULFINYLBISMETHANE	67-68-5	75.0 ~ 85.0
Alkali	-	-	0.1 ~ 5.0
Water	DIHYDROGEN OXIDE	7732-18-5	1.0 ~ 10.0

4. FIRST-AID MEASURES

4.1 Eye contact	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.
4.2 Skin contact	If skin irritation occurs: Get medical advice/attention. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF exposed: Call a POISON CENTER or doctor/physician. Remove contaminated clothing and shoes and please isolate the contaminated area. IF ON SKIN: Gently wash with plenty of soap and water.
4.3 Inhalation	Immediately call a POISON CENTER or doctor/physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
4.4 Ingestion	IF exposed: Call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.
4.5 PROTECTION OF: FIRST-AIDERS	Treatment of over exposure should be directed at the control of symptoms and the clinical condition of the patient

5. FIRE-FIGHTING MEASURES

5-1. Suitable extinguishing media	Alcohol-resistant foam, dry chemical, water, carbon dioxide, dry sand
5-2. Specific hazards arising from the chemical	May be corrosive to metals. May produce hazardous gas on combustion. Irritation or toxic gases may be occurred in fire-emergency.

5-3. Special precautions for fire-fighters	<p>Can not be ignited easily.</p> <p>If not danger, remove containers.</p> <p>Use water spray to keep fire-exposed containers cool.</p> <p>Fight fire from a protected location</p> <p>Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</p> <p>Keep unopened containers cool by spraying with water</p>
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6. ACCIDENTAL RELEASE MEASURES

6-1. Personal precautions, protective equipment and emergency procedures	<p>Do not breathe dust/gas/mist/vapours/spray.</p> <p>Cleaning up immediately, and follow the precaution.</p> <p>Separate the contaminated area.</p>
6-2. Environmental precautions	Do not let products flow in waterway, drain basement, and sealed room.
6-3. Methods and materials for containment and cleaning up	<p>Absorbed exposed materials with inactivity material(dry sand and soil) and place in a container for proper disposal.</p> <p>After absorbed exposed materials, clean up with cleaner and water.</p>

7. HANDLING AND STORAGE

7-1. Precautions for safe handling	<p>Clean up carefully after handling.</p> <p>Notice precautions of MSDS/Label.</p> <p>Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>Do not eat, drink or smoke in areas of use or storage.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Store and use with adequate ventilation.</p> <p>Handling and storage with care.</p> <p>Open the cover carefully before use.</p> <p>Do not contact with skin for a long time.</p> <p>Notice the engineering management and personal protection.</p>
7-2. Conditions for safe storage, including any incompatibilities	<p>Only in lockable container.</p> <p>Keep container tightly closed in well-ventilated area.</p> <p>Keep away from food and drink.</p>

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8-1. Control parameters	
Domestic regulations	
ACGIH regulations	TWA - 10mg/m3
Biological exposure	TWA 10mg/m3
	No data available
8-2. Appropriate engineering controls	<p>Keep air pollution under exposure standard when occur fume or mist in handle.</p> <p>Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.</p> <p>Washing/shower system.</p>
8-3. Individual protection measures (personal protective equipment)	Use proper respiratory, eye, hand, skin, and body protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9-1. Appearance	
Physical state	Transparent Liquid
Color	Colorless ~ Pale Yellow

9-2. Odor	Ammonia odor
9-3. Odor threshold	No data available
9-4. pH	12.0 ~ 13.0
9-5. Melting point/freezing point	No data available
9-6. Initial boiling point and boiling range	190°C
9-7. Flash point	95°C
9-8. Evaporation rate	No data available
9-9. Flammability(solid, gas)	No data available
9-10. Upper flammability or explosive limits	No data available
9-11. Vapour pressure	No data available
9-12. Solubility	100% water soluble
9-13. Relative density	No data available
9-14. Specific gravity	1.1
9-15. Partition coefficient : n-octanol/water	No data available
9-16. Auto-ignition temperature	No data available
9-17. Decomposition temperature	No data available
9-18. Viscosity	2.3 cP at 25°C
9-19. Molecular weight	No data available

10. STABILITY AND REACTIVITY

10-1. Chemical stability and possibility of hazardous reactions

Container can be exploded when heated.
 Can not be ignited easily.
 May be corrosive to metals.
 Toxic : In case of Inhalation, ingestion, skin contact, May be serious harmful.

11. TOXICOLOGICAL INFORMATION

11-1. Information on the likely routes of exposure

No data available.

11-2. Health hazards information

Acute toxicity

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Skin corrosion/irritation

No data available.

Sensitization - Respiratory

No data available.

Skin reaction

No data available.

Germ cell mutagenicity

No data available.

Reproduction-toxicity

No data available.

12. ECOLOGICAL INFORMATION

12-1. Ecotoxicity

Fish

No data available.

12-2. Persistence and degradability

Persistence	No data available.
Degradability	No data available.
12-3. Bioaccumulative potential	
Bioconcentration	No data available.
Biodegradability	No data available.
12-4. Mobility in soil	No data available.
12-5. Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13-1. Methods of disposal	Follow federal, state and local regulations.
13-2. Caution of disposal	Consider the notice in regulations.

14. TRANSPORT INFORMATION

14-1. IMDG Code (UN No.)	3267
14-2. Shipment name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S
14-3. Container grade	III
14-4. Special precautions which a user needs to be aware of, or needs to comply with	
Fire	F-A
Leak	S-B

15. REGULATORY INFORMATION

No data available

16. OTHER INFORMATION

16-1 Initial reported date	2016-03-04
16-2 Revision No.	
Revision No.	0 time
Final issued date	2016-03-04
16-3 Others	-

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