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## Safety Data Sheet

### 1. Product and Company Identification

Product name :CEMEDINE ABS-YOU

Name of supplier :CEMEDINE Co., Ltd.

Address :Gate City Osaki East Tower 1-11-2 Osaki Shinagawa-ku , Tokyo-to

Division :Quality Assurance Dept.

Phone :03-6421-7413

FAX :03-6421-7416

Emergency phone :03-6421-7413

Product code(SDS NO) :GE0557-1

### 2. Hazards Identification

GHS classification and label elements of the product

GHS classification

#### PHYSICAL HAZARDS

Flammable liquids : Category 2

#### HEALTH HAZARDS

Acute toxicity inhalation : Category 4

Eye damage /eye irritation : Category 2

Skin sensitization : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity-single exposure : Category 2

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

Specific target organ toxicity - single exposure; Narcosis Category 3

Specific target organ toxicity-repeated exposure : Category 2

#### ENVIRONMENT HAZARDS

Hazardous to the aquatic environment-acute toxicity : Category 3

Hazardous to the aquatic environment-chronic toxicity : Category 3



Signal word : Danger

#### HAZARD STATEMENT

Highly flammable liquid and Vapor

Harmful if inhaled

Causes eye irritation

May cause an allergic skin reaction

Suspected of causing genetic defects

Suspected of damaging fertility or the unborn child

May causes damage to organs after single exposure.

May cause respiratory irritation

May cause drowsiness and dizziness

May causes damage to organs following repeated exposure.

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

## Adverse human health effects

May be poisoned by organic solvent.

## Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.

## 3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Chemical identity :Polyvinyl chloride resin base, solvent type adhesive.

Ingredient name	content(%)	CAS No.	Chemicals No, Japan
Vinyl chloride-vinyl acetate copolymer	20-30	CBI/not registered	CBI/not registered
Acetone	50-60	67-64-1	2-542
Methyl isobutyl ketone	1-10	108-10-1	2-542
Butyl acetate	1-10	123-86-4	2-731
Cyclohexanone	1-5	108-94-1	3-2376

Note : The figures shown above are not the specifications of the product.

## 4. First-Aid Measures

## General procedures

Get medical attention/advice if you feel unwell.

Specific treatment is required.

IF exposed or concerned: Get medical attention/advice.

## 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.

## IF ON SKIN

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

Wash with plenty of soap and water.

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

## 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 foam, dry powder, CO2

## Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

## 6. Accidental Release Measures

## Personnel precautions, protective equipment and emergency procedures

keep away from someone's skin and keep from getting into eyes, put on the protections.

## Preventive measures for secondary accident

Stop leak if you can do it without risk.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).  
Prevent entry into waterways, sewers, basements or confined areas.  
A vapor suppressing foam may be used to reduce vapors.

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## 7. Handling and Storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

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

Use personal protective equipment as required.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

### Safety Measures/Incompatibility

Obtain special instructions before use.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

### Conditions for safe storage, including any incompatibilities

#### Recommendation for storage

Store locked up.

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

Store in well-ventilated place. Keep cool .

STORAGE TEMPERATURE (min/Max): 5-35C

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## 8. Exposure Control/Personal Protection

### Adopted value

(Methyl isobutyl ketone)

ACGIH(1992) TWA: (50ppm)

STEL: 75ppm (URT & eye irr; kidney dam)

(Cyclohexanone)

ACGIH(1990) TWA: 20ppm

STEL: 50ppm (Skin)(Eye & URT irr)

(Butyl acetate)

ACGIH(1995) TWA: 150ppm

STEL: 200ppm (Eye & URT irr)

(Acetone)

ACGIH(1996) TWA: 500ppm

STEL: 750ppm (URT & eye irr; CNS impair; hematologic eff)

### Safety and Health measures

Wash ... thoroughly after handling.

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

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

Wash contaminated clothing before reuse.

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## 9. Physical and Chemical Properties

### Physical properties

Appearance :viscous liquid

Color :clear

Odor :Solvent odor

## Phase change temperature

Initial Boiling Point/Boiling point :56(Acetone)°C

Flash point :-18(Acetone)°C

Auto-ignition temperature :420(Cyclohexanone)°C

Explosion :Flammability or explosive limit

lower limit :1.2(Butyl acetate) vol %

upper limit :13(Acetone) vol %

Vapor pressure :24(Acetone) kPa (20°C)

Specific gravity/Density :0.9 g/cm<sup>3</sup>

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10. Stability and Reactivity

## Stability

This product is considered a stable material under normal condition.

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11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

## Acute toxicity

Oral toxicity component(s) data

(Methyl isobutyl ketone)

rat LD50=2080mg/kg (ACGIH(2001) et al

(Cyclohexanone)

rat LD50=800- 1840 mg/kg (SIDS(access on Apr, 2009), DFGOTvol. 10(1998))

Dermal toxicity component(s) data

(Methyl isobutyl ketone)

rabbit LD50 &gt; 16000 mg/kg (IUCLID(2000))

(Cyclohexanone)

rabbit LD50=947mg/kg (DFGOT(1998), PATTY(2001))

Inhalation toxicity component(s) data

(Methyl isobutyl ketone)

vapor : rat LC50=8.2, 16.4mg/L/4hr (EHC117(1990))

(Cyclohexanone)

vapor : rat LC50=2450ppm (ACGIH (2003))

(Butyl acetate)

vapor : rat LD50=2000ppm (ACGIH 2001)

Labor standard law, Japan; Toxic

Cyclohexanone; Butyl acetate; Acetone

## Irritant properties

Skin corrosion/Irritation component(s) data

(Methyl isobutyl ketone)

rabbit 500 mg/24H ; MILD

(Cyclohexanone)

rabbit 500 mg open ; MILD

(Butyl acetate)

rabbit 500 mg/24H ; MODERATE

(Acetone)

rabbit 100 mg/24H ; MODERATE

## Serious eye damage /irritation

Eye damage/irritation component(s) data

(Methyl isobutyl ketone)

rabbit 40 mg ; SEVERE 500 mg/24H ; MILD

(Cyclohexanone)

rabbit 4.74mg ; SEVERE

(Butyl acetate)

rabbit 20 mg open ; SEVERE

(Acetone)

rabbit 395 mg open ; MILD rabbit 500 mg/24H ; MILD

No Allergenic and sensitizing effects data available

Mutagenic effects

(Cyclohexanone) SIDS (2009)

No Teratogenic effects data available

Carcinogenic effects

(Cyclohexanone)

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

(Methyl isobutyl ketone)

ACGIH-A3(2009) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Cyclohexanone)

ACGIH-A3(1990) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Acetone)

ACGIH-A4(1996) : Not Classifiable as a Human Carcinogen

Toxicity for reproduction

(Acetone) EHC 207 (1998)

(Cyclohexanone) SIDS (2009) et al

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Specific target organ toxicity (single exposure cat.2)

(Cyclohexanone) respiratory apparatus/system ( SIDS (2009) )

Specific target organ toxicity (single exposure cat.3 respiratory irritation)

(Acetone) Respiratory tract irritation ( ACGIH (2001) et al )

Specific target organ toxicity (single exposure cat.3 drowsiness/dizziness)

(Acetone) Narcosis ( ACGIH (2001) )

Specific target organ toxicity (repeated exposure cat.2)

(Acetone) blood ( ACGIH (7th, 2001) et al )

(Methyl isobutyl ketone) nerve/nervous system ( EHC 117 (1990) )

(Cyclohexanone) CNS; bone ( ACGIH (2003) et al )

No Aspiration hazard data available

## 12. Ecological Information

Ecotoxicity

Aquatic toxicity

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

(Methyl isobutyl ketone)

Crustacea (Daphnia magna) EC50=170 mg/L/48hr (CERI, 2000)

(Cyclohexanone)

Fish (fat head minnow) LC50=527 mg/L/96hr (CERI hazard data book, 2000)

(Butyl acetate)

Fish (bluegill) LC50=100mg/L/96hr (EPA\_Japan, 2002)

(Acetone)

Fish (fat head minnow) LC50 > 100mg/L/96hr (EHC207, 1998)

Water solubility

(Methyl isobutyl ketone)

1.91g/100 ml (20 C) (ICSC, 1997)

(Cyclohexanone)

25 g/L (PHYSPROP Database, 2005)

(Butyl acetate)

0.7 g/100 ml (20 C) (ICSC, 2003)

(Acetone)

miscible (ICSC, 1994)

Persistence and degradability

(Butyl acetate)

BOD\_Degradation : 98%(IUCLID, 2000)

Bioaccumulative potential

(Methyl isobutyl ketone)

log Pow=1.38 (ICSC, 1997)

(Cyclohexanone)

log Pow=0.81 (ICSC, 2004)

(Butyl acetate)

log Pow=1.78(PHYSPROP Database, 2005)

(Acetone)

log Pow=-0.24 (ICSC, 1994)

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### 13. Disposal Considerations

Waste residues

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

UN No :1133

UN CLASS :3

PG :II

Proper shipping name :ADHESIVES containing flammable liquid

ERG GUIDE NO :128

Sea pollutant

Sea pollutants control law

Noxious Liquid ; Cat. Y :Butyl acetate

Noxious Liquid ; Cat. Z :Methyl isobutyl ketone; Cyclohexanone; Acetone

Special precautions in connection with transport or conveyance

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### 15. Regulatory Information

GHS classification and labelling

Acute Tox. 4 : H332 Harmful if inhaled

Eye Irrit. 2 : H319 Causes serious eye irritation

Skin Sens. 1 : H317 May cause an allergic skin reaction

Muta. 2 : H341 Suspected of causing genetic defects

Carc. 2 : H351 Suspected of causing cancer

Repr. 2 : H361 Suspected of damaging fertility or the unborn child

STOT SE 2 : H371 May causes damage to organs after single exposure.

STOT SE 3 : H335 May cause respiratory irritation

STOT SE 3 : H336 May cause drowsiness and dizziness

STOT RE 2 : H373 May causes damage to organs following repeated exposure.

Aquatic Acute 3 : H402 Harmful to aquatic life

Aquatic Chronic 3 : H412 Harmful to aquatic life with long lasting effects

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### 16. Other Information/References

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (3rd ed., 2009), UN  
Recommendations on the TRANSPORT OF DANGEROUS GOODS 16th edit. UN  
Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)  
2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)  
2011 TLVs and BEIs. (ACGIH)  
<http://monographs.iarc.fr/monoeval/grlist.html>  
Supplier's SDS

Other information

The data given here is based on current knowledge and experience. The purpose of this  
Safety Data Sheet is to describe the products in terms of their safety requirements. The  
data does not signify any warranty with regard to the products' properties.