Safety Data Sheet

First issue 2016/02/15

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1.PRODUCT AND COMPANY IDENTIFICATION

Product Name QUICK FIX GLUE

Company Undertaking Asahi Engineering Co., Ltd

Address 4-4-3 Sagisu, Fukushima-ku Osaka 553-0002 JAPAN

Information Telephone Number 81-6-6452-5811 Emergency Telephone Number 81-6-6452-5811

2 .HAZARDS IDENTIFICATION

GHS Classification (Based on NTTE)

Physical Hazards

Explosives Classification not possible

Flammable gases

Flammable aerosols

Oxidizing gases

Not applicable

Not applicable

Gases under pressure

Flammable liquids

Flammable solids

Not applicable

Category 4

Flammable solids

Self-reactive substances and mixtures Classification not possible

Pyrophoric liquids Not classified
Pyrophoric solids Not applicable

Self-heating substances and mixtures

Classification not possible
Classification not possible
Classification not possible

with water, emit flammable gases

Oxidizing liquids Classification not possible

Oxidizing solids Not applicable

Organic peroxides Classification not possible Corrosive to metals Classification not possible

Human Health Hazards

Acute toxicity(Oral)

Acute toxicity(Dermal)

Acute toxicity(Inhalation:Gases)

Not classified

Not applicable

Acute toxicity(Inhalation:Vapors) Classification not possible Acute toxicity(Inhalation:Dusts/Mists) Classification not possible

Skin corrosion/irritation Not classified
Serious eye damage/eye irritation Category 2B

Respiratory sensitization Classification not possible

Skin sensitization Category 1
Germ sell mutagenicity Not classified

Carcinogenicity Classification not possible Reproductive toxicity Classification not possible

Specific target organ toxicity-Single exposure Category 3(respiratory irritation)

Specific target organ toxicity-Repeated exposure
Aspiration hazard
Classification not possible
Classification not possible

Environmental Hazards

Acute toxicity the aquatic environment Chronic toxicity to the aquatic environment Hazardous to the ozone layer Classification not possible Classification not possible Classification not possible

Label Elements

Pictogram and Symbol: Exclamation Mark

Signal word: Warning

Hazard statement Combustible liquid

May cause an allergic skin reaction

Causes eye irritation

May cause respiratory irritation

Precaution:

[Prevention]

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

Avoid breathing mist/vapors/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace

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

[Response]

If on skin: Wash with plenty of soap and water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contactlenses, if present and

easy to do.continue rinsing.lmmediately call a POISON CENTER or doctor/physician

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

If eye irritation persists: Get medical advice/sttention.

Take off contaminated clothing and wash befor reuse.

In case of fire: Use appropriate extinction.

[Storage]

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

Store locked up.

[Disposal]

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 .Composition/information on ingredients

- 3.1 Substance: Ethy12-cyanoacrylate
- 3.2 Other name:2-Cyanoacrylic acid,ethyl ester,2-Cyano-2-propenoic acid,ethyl ester,ETHYL2-CYANOACRYLATE Ethyl alpha-cyanoacrylate

3.3 Ingredients

Ingredients wt% CAS Regisutry No. Chemical Formula Ethyl cyanoacrylate 95< 7085-85-0 CH₂C(CN)COOC₂H₅

Property modification material <5 secret secret

3.4 Inventory status: Ethyl cyanoacrylate

TSCA Listed
EINECE No. 230-391—5
RTECS No. UD3330050
ICSC No. 1358

EC No. 607-236-00-9 EC Classification Xi:R36/37/38

EC Labeling XiR:36/37/38 S: (2-)23-24/25-26

4. First measures

4.1 Description of necessary measures, subdivided according to the different routes of exposure, ie, inhalation,

Skin and eye contact, and ingestion

If on skin: Wash with plenty of soap and water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a PIISON CENTER or doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing lmmediately call a POISON CENTER or doctor/physician.

4.2 Indication of immediate medical attention and special treatment needed, if necessary

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

If eye irritation persists: Get medical advice/attention

5. Firefighting measures

5.1 Acute hazards/symptoms in fire: Combustible 5.2 Prevention in fire: No open flames.

5.3 First aid/Fighting in Fire: In case of fire in the surroundings: use appropriate

extinguishing media.

5.4 Acute hazards/symptoms in explosion: Above 75°C explosive vapor/air mixtures may be formed.

5.5 Prevention in explosion: Above 75°C use a closed system, ventilation, and explosion-proof

Electrical equipment.

5.6 First aid/Fire Fighting in Explosion: In case of fire:keep drums,etc.,cool by spraying with water.

6.Accidental releasa measures

- 6.1 Evacuate nonessential personnel.
- 6.2 Shut off all sources of ignition: No fires, smoking or flames in area.
- 6.3 Ventilate area after material pick up is completed.
- 6.4 For small spills: Absorb spill with inert material (dry cloth, dry sand), then place in a chemical waste containers using non-sparking tools. Flush residual spill (area) with plenty of water.
- 6.5 For large spills:Dike for later disposal. Wash with plenty of water.

7. Handling and storage

7.1 Precautions for safe handling.

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

Avoid breathing mist/vapors/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

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

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities.

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

Store locked up.

8.Exposure controls/personal protection

8.1 Control parameters, eg, occupational exposure limit values or biological limit values ACGIH 2007, TLV-TWA0.2ppm

8.2 Appropriate engineering controls

(Please refer to engineering controls described in "7.1 Precautions for safe handling")

8.3 Individual protection measures, such as personal protective equipment

(Please refer to Individual protection measures described in "7.1 Precautions for safe handling")

9. Physical and chemical properties

- 9.1 Appearance(physical state, color, etc): Transparent or light yellowish liquid
- 9.2 Odor: Special irritating odor
- 9.3 Odor threshold:No data
- 9.4 pH:4~6
- 9.5 Melting point/Freezing point:-29.5℃
- 9.6 Initial boiling point and boiling range:54-56°C/6mmHg
- 9.7 Flash point:75°C(ICSC,2001)
- 9.8 Evaporation rate: No data
- 9.9 Flammability(solid,gas):liquid
- 9.10 Upper/lower flammability or explosive limits:lower limit 1.7vol%
- 9.11 Vapor pressure: ≤ 1 Pa(25°C)
- 9.12 Relative density: 0.9~1.1 (water=1)
- 9.13 Solubility(ies):not soluble in water.slighly soluble in alcohol, acetone, MEK, toluene, DMF, nitromethane.
- 9.14 Partition coefficient:n-octanol/water:No data
- 9.15 Auto ignition temperature:485°C
- 9.16 Decomposition temperature: No data

10. Stability and reactivity

10.1 Condition to avoid: High humidity high temperature or direct sunlight

10.2 Stability: Stable(cool and dry area.)

10.3 Materials to avoid: Polymerized by contact with water, alcohols, amines, alkalis.

10.4 Hazardous decomposition or by products: CO₂,oxides and nitrogen and unknown hydrocarbons.

11. Toxicological information

11.1 Acute toxicity(oral)

No data available.

11.2 Acute toxicity(Dermal)

No data available.

11.3 Acute toxicity(Inhalation Gases)

Liquid(GHS definition)

11.4 Acute toxicity(Inhalation:Vapors)

No data available.

11.5 Acute toxicity(Inhalation:Dusts/Mist)

Classification not possible due to lack of data

11.6 Skin corrosion/irritation

No data available.

11.7 Serious eye damage/eye irritation

Category 2B by NITE Data Base

11.8 Respiratory sensitization/Skin sensitization

The animal data is not obtained. Two cases of skin sensitization in humans have been reported (CICAD, 2001) Therefore, skin sensitizations was set to Category 1. Respiratory sensitizations cannot be Classified due to the lack of data.

11.9 Germ cell mutagenicity

No data available.

11.10 Carcinogenicity

No data available.

11.11 Reproductive toxicity

No data available.

11.12 Specific target organ toxicity-Single exposure

Category3(respiratory irritation) by NITE Date Base

11.13 Specific target organ toxicity-Repeated exposure

No data available.

11.4 Aspiration hazard No data available.

12. Ecological information

12.1 Acute toxicity to the aquatic environment

No data available.

12.2 Chronic toxicity to the aquatic environment

No data available.

12.3 Hazardous to the ozone layer

No data available.

13.Disposal considerations

- 13.1 Description of waste residues and information on their safe handling and methods of disposal If you would like to dispose of this chemical, you should properly dispose of this by yourself or ask qualified specific agents dispose of this according to related legislations and local regulations. If you would like to ask the agents dispose of this chemical ,you should provide sufficient information on dangerousness and hazard of this chemical.
- 13.2 The disposal of any contaminated packaging

Container should be recycled after cleaning or if you would like to dispose of container of this chemical, you should properly dispose of this by yourself ask qualified specific of this according to related legislations and local regulations, If you would like to ask the agents dispose of container, you should provide sufficient information on dangerousness and hazard of this chemical in this container and information on ingredient and notice of container.

14. Transport information

14.1 U.S.Depatment of Transportation Ground Transport(49 CFR 172)

Proper shipping name: Unrestricted(Not more than 450 liters.)

Combustible liquids n.o.s.(Cyanoacry late ester)(More than 450 liters)

Hazard class or division: Unrestricted(Not more than 450 liters.)

Combustible liquids.(Not more than 450 liters.)

Identification number: None (Not more than 450 liters.)

NA1993(More than 450 liters.)

Marine pollutant: None.

14.2 International Air transportation(ICA/IATA)
Proper shipping name: Unrestricted
Class or division: Unrestricted

UN or ID number: None 14.3 Water Transportation(IMO/IMDG)

Proper shipping name: Unrestricted

Hazard class or division: None Identification number: None Marine pollutant: None

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question (under survey)

CA Proportion 65: No California proposition 65 chemicals are known to be present.

TSCA8(b)Inventory status: All components are listed or are exempt from listing on Toxic Substances

Control Act Invebtory.

EINECS: All components are listed on EINECS

REACH: Ethyl 2-cyanoacrylate Reference number 05-2116448569-29-0000

16.Other information including information on preparation and revision of the SDS

(Reference)

NITE GHS Classification of this substance(English/Japanese)

GHS Model Label of this substance(English/Japanese)

GHS Model Label List of 714 Chemicals in OSH in Japan(English/Japanese)

GHS Classification Manual, Technical Guidance and Results of the classification in Japan(English/Japanese)

Technical Guidance on GHS classification in Japan(English/Japanese)

Japan Advanced Information center of Safety and Health-Chemical information(Only Japanese)

ICSC 1358(English/Japanese)

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