SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION
1.1 Product identifiers
Product name :
Polyethylenimine, branched
Product Number : 408727
Brand : Conier
CAS-No. : 9002-98-6
1.2 Relevant identified uses of the substan ce or mixture and uses advised against
Identified uses : Laboratory chemicals, Synthesis of substances
1.3 Details of the supplier of the safety data sheet
Emergency:+86-23-62922305
Fax:+86-23-62459727
Tel:+86-23-62922305
Address:11F, #20 building, #18 Fuquan Road, Jiangbei District, CHONGQING 400020, P.R China
Company:Conier Chem & Pharma Limited
1.4 Emergency telephone number
Emergency Phone # : +1-703-527-3887 (CHEMTREC)
2. HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 2), H401
Pictogram
Signal word Warning
Chronic aquatic toxicity (Category 2), H411
Hazard statement(s)
H302 Harmful if swallowed.
For the full text of the H-Statements mentioned in this Section, see Section 16.
H317 May cause an allergic skin reaction.
2.2 GHS Label elements, incl uding precautionary statements
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
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, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none
3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances
CAS-No. : 9002-98-6
Hazardous components
Component Classification Concentration
Aziridine, homopolymer
Acute Tox. 4; Eye Irrit. 2A; 90 - 100 %
Skin Sens. 1; Aquatic Acute 2;

Aquatic Chronic 2; H302,
H317, H319, H411
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

For precautions see section 2.2.

8.1 Control parameters

7.2 Conditions for safe stora ge, including any incompatibilities

Components with workplace control parameters

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed
Contains no substances with occupational exposure limit values.
and kept upright to prevent leakage.

7.3 Specific end use(s) 8.2 Exposure controls

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic phys ical and chemical properties

a) Appearance Form: viscous
Colour: colourless
b) Odour No data available
c) Odour Threshold No data available
d) pH 12 at 100 g/l at 23 °C (73 °F)
e) Melting point/freezing point No data available
f) Initial boiling point and boiling range 250 °C (482 °F) - lit.
g) Flash point > 110 °C (> 230 °F) - closed cup
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower flammability or explosive limits No data available
k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density 1.030 g/cm3 at 25 °C (77 °F)
n) Water solubility soluble
o) Partition coefficient: n-octanol/water No data available
p) Auto-ignition temperature No data available
q) Decomposition temperature No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 500 - < 2,000 mg/kg
(OECD Test Guideline 423)
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
Serious eye damage/eye irritation
probable, possible or confirmed human carcinogen by IARC.
Eyes - Rabbit
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity
Result: Irritating to eyes.
No data available
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
(OECD Test Guideline 405)
Additional Information
Respiratory or skin sensitisation
RTECS: TQ7917000
Maximisation Test - Guinea pig
May cause allergic skin reaction.
Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not
(OECD Test Guideline 406)
been thoroughly investigated.
Germ cell mutagenicity
No data available
12. ECOLOGICAL INFORMATION
12.1 Toxicity
Toxicity to fish LC50 - Danio rerio (zebra fish) - 7.2 mg/l - 96.0 h
(OECD Test Guideline 203)
Toxicity to daphnia and static test EC50 - Daphnia magna (Water flea) - 8.84 mg/l - 48 h
other aquatic (OECD Test Guideline 202)
invertebrates
12.2 Persistence and degradability
Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.
(OECD Test Guideline 302B)
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.
13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.
14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods

IMDG
UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aziridine, homopolymer)
Marine pollutant:yes
IATA
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Aziridine, homopolymer)
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Massachusetts Right To Know Components
Further information
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
CAS-No. Revision Date
Aziridine, homopolymer 9002-98-6
New Jersey Right To Know Components
CAS-No. Revision Date
Aziridine, homopolymer 9002-98-6
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.
Acute Tox. Acute toxicity
Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity
Eye Irrit. Eye irritation
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
Skin Sens. Skin sensitisation
HMIS Rating
Health hazard: 2
Chronic Health Hazard:
Flammability: 0
Physical Hazard 1
NFPA Rating
Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CONIER Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.conier.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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