Material Safety Data Sheets

1、PRODUCT AND COMPANY IDENTIFICATION

Product Name：Chain & Freewheel Cleaner
Product NO.： BIC-888P
Supplier's Name & Address： CHEPARK ENTERPRISE CO., LTD No. 28-3, Aly. 118, Ln. 332, Sec. 8, Huanzhong Rd., Wuri Dist., Taichung City 414, Taiwan (R.O.C.)
Emergency Tel. Number： TEL:886-4-2335-9906 FAX:886-4-2335-2591

2、COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity： Mixtures (hydrocarbon C6~C7)
1. ethylenediaminetetraacetic acid tetrasodium salt dyhydrate CAS No. 64-02-8 30%
2.Sodium Cumenesulfonate CAS No. 15763-76-5 40%
3.Alcohol Ethoxylate CAS No. 68439-46-3 5%
4.Tetrasodium etidronate CAS No.3794-83-0 5%
5.Water 20%

3、HAZARD IDENTIFICATION

3.1. Classification of the substance or mixture

3.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms: GHS05, GHS07

Hazard Class and Category Code(s): Skin Irrit. 2, Eye Dam. 1

Hazard statement Code(s): H315 - Causes skin irritation. H318 - Causes serious eye damage.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s): GHS05 - Danger

Hazard statement Code(s):H315 - Causes skin irritation.H318 - Causes serious eye damage.

Supplemental Hazard statement Code(s): not applicable

Precautionary statements: Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/... Contains: sodium hydroxide, Alcohol Ethoxylate C9-C 11, Tetrasodium etidronate, Contains (Reg.EC 648/2004): < 5% EDTA and salts thereof, phosphonates, non-ionic surfactants.

2.3. Other hazards the substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII No information on other hazards. For professional use only.

4、FIRST-AID MEASURES

4.1. Description of first aid measures

Inhalation: Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).: Take contaminated clothing Immediately off. Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

Direct contact with eyes (of the pure product).: Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately. Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion: Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

4.2. Most important symptoms and effects, both acute and delayed. No data available.

4.3. Indication of any immediate medical attention and special treatment needed.

Immediately call a POISON CENTER/doctor/…

5、FIRE-FIGHTING MEASURES

Suitable extinguishing media：Dry chemicals、Foam、CO2

Specific hazards arising from the Chemicals： Heating combustion may emit toxic hydrocarbons or cyclic hydrocarbons.

Specific methods：

1. Water for fire fighting is not valid, but can fire water spray to cool containers to prevent the expansion of an explosion.
2. Fire-fighting personnel must wear protective equipment and respirators, in the wind at the top.
3. To stop leakage of solvents and flow, and covered with fire-extinguishing agent, isolation of the fire areas has all been leaked, if possible, try to remove the storage container or water-cooling disaster in the vicinity of the container, pay attention Do not spray too close.
4. Solvent liquid will float on the water surface, and may spread
5. Violent reaction with the oxidant easily.
6. Steam easily ignited, and the result of heavier than air, it may spread to distant, if it is set fire could burn back to the source.
7. To make use of automatic fixed fire fighting equipment and personnel to avoid entering the affected areas.

Special protective equipment and Precautions for fire fighters：

As in any fire, wear self-contained breathing apparatus

Pressure-demand, MSHA/NIOSH (approved or Equivalent) and full protective gear.

6、ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures：

(1) Not completely clean up the contaminated area, it should be restrictions on non-essential personnel to go near.

(2) Determine the Stop-leak and clean-up work is undertaken by trained staff.

Environmental precautions：

(1) Ventilation in the area, pay attention to use explosion-proof equipment.

(2) Isolated from all the fire and heat.

(3) To prevent pollutants from entering sewers or confined spaces.

Cleaning up methods：
(1) Away from all the fire source and banned touch of pollutants.
(2) Blockade contaminated areas, and the withdrawal of personnel.
(3) Spraying water on-site to reduce gas concentration in the air.
(4) To prohibit any fire source in the vicinity.

7、HANDLING AND STORAGE

Precautions for safe handling：
(1) Storage sites to prohibit any fire source and heat.
(2) Work areas should be strictly prohibited fireworks, and a "No smoking" sign.
(3) The container may still be a residue after use shall not engage in any welding, cutting, drilling or other hot work.
(4) Do not mix with other chemicals.

Storage：
(1) Can not be mixed with other chemicals, and to prohibit the fire source.
(2) Do not pour contaminated liquid storage container back to the original.
(3) Containers should be marked and noted, when not in use to avoid damage.
(4) Stored in a cool, dry, well ventilated, and no direct exposure to the sun, away from heat, ignition sources, places.

8、EXPOSURE CONTROLS / PERSONAL PROTECTION

Related to contained substances:
sodium hydroxide:
TLV: 2 mg/m (Ceiling value) (ACGIH 2004).
Substance: Ethylenediaminetetraacetic acid tetrasodium salt dihydrate 40% DNELSystemic effects Long term Consumers inhalation = 1,5 (mg/m3)
Systemic effects Long term Consumers oral = 25 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 2,5 (mg/m3)
Systemic effects Short term Consumers inhalation = 1,5 (mg/m3)
Local effects Long term Workers inhalation = 2,5
Local effects Long term Consumers inhalation = 1,5 (mg/m3)
Local effects Short term Workers inhalation = 2,5 (mg/m3) PNEC
Sweet water = 2,2 (mg/l) Sea water = 0,22 (mg/l) intermittent emissions = 1,2 (mg/l)
ground = 0,72 (mg/kg ground) - Substance: Sodium Cumenesulfonate 40% DNEL
Systemic effects Long term Workers inhalation = 53,6 (mg/m3)
Systemic effects Long term Workers dermal = 7,6 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 13,2 (mg/m3)
Systemic effects Long term Consumers dermal = 3,8 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 3,8 (mg/kg bw/day) PNEC
Sweet water = 0,23 (mg/l) intermittent emissions = 2,3 (mg/l) STP = 100 (mg/l)
8.2. Exposure controls
Appropriate engineering controls: Industrial Manufacturing. No specific monitoring foreseen Professional use: No specific monitoring foreseen Individual protection
Individual protection measures:
(a) Eye / face protection: When handling the pure product use safety glasses (spectacles cage) (EN 166).
(b) Skin protection
(i) Hand protection: When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
(ii) Other: When handling the pure product wear full protective skin clothing.
(c) Respiratory protection: Not needed for normal use.

(d) Thermal hazards: No hazard to report Environmental exposure controls: Use according to good worki ng practices to avoid pollution into the environment.

9、PHYSICAL AND CHEMICAL PROPERTIES

Physical State： Liquid	Shape： None
Color： blue	Odour： light
pH Value：11.8	Odour threshold：no determined
Decomposition Temperature：None	Boiling point/range： 105℃
Auto-ignition temperature Spontaneous combustion: non flammable	Flash point：non flammable
Vapor pressure/density：irrelevant	Upper/lower flammability or Explosive limits：non flammable
Flammability: non flammable	Relative density：1.14±0.3 gr/L at 20℃
Water soubility: complate	Solubility： in water

10、STABILITY AND REACTIVITY

10.1. Reactivity: No reactivity hazards
10.2. Chemical stability: No hazardous reaction when handled and stored according to provisions.
10.3. Possibility of hazardous reactions: There are no hazardous reactions
10.4. Conditions to avoid: Nothing to report
10.5. Incompatible materials It can generate flammable gases in contact with dithiocarbamates, mercapt ans and other organic sulfides, primary metals, strong
reducing agents. It can generate toxic gases to contact with inorganic fluoride, halogenated organic substances, sulfide, nitrides, nitrile, organophosphate, strong oxidants agents.
It can ignite in contact with ditiocarbamate, elementary metals, nitrides.
10.6. Hazardous decomposition products: Does not decompose when used for intended uses.

11、TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
ATE(mix) oral = 3.597,1 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationIf brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
(c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
(e) germ cell mutagenicity: based on available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) reproductive toxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met. Related to contained substances: sodium hydroxide: ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: evaporation at 20 C negligible; a harmful concentration of aereodisperse particles can, however, be reached quickly. Effectsm of Short-term Exposure: Corrosive The substance is very corrosive for the eyes, the skin and the respiratory tract. Corrosive if swallowed. Aerosol inhalation of the substance can cause pulmonary edema (see notes). Effects of REPEATED EXPOSURE or long-term repeated or prolonged Contact with skin may cause dermatitis. ACUTE HAZARDS/Symptoms INHALATION Corrosive. Burning sensation. Sore throat. Cough. Difficulty in breathing. Shortness of breath. Symptoms may be delayed (see notes). SKIN Corrosive. Redness. Pain. Severe skin Burns. Blisters. Corrosive EYES. Redness. Pain. Blurred vision. Severe deep burns.
INGESTION: Corrosive. Burning sensation. Abdominal pain. Shock or collapse. NOT and the exposure limit value must not be exceeded in any moment of exposure. Symptoms of lung oedema often do not occur before a few hour and are aggravated by physical effort. Are therefore essential rest and medical observation.

12、ECOLOGICAL INFORMATION

12.1. Toxicity
Related to contained substances: sodium hydroxide:
This substance can be dangerous for the environment; Special attention must be paid to aquatic organisms.
Use in accordance with the working practices, avoiding to disperse the product in the environment.
LC100 Leuciscus idus melanotus213mg Fish/L 48, Juhnke et al.
(1978), z. Wasser Abwasser Forsch, 11, 161-164
LC50 fish, Leuciscus idus, melanotus189mg/L 48, Juhnke et al.
(1978), z. Wasser Abwasser Forsch, 11, 161-164
Use according to good working practices to avoid pollution into the environment.
12.2. Persistence and degradability: No data available.
12.3. Bioaccumulative potential: No data available.
12.4. Mobility in soil: No data available.
12.5. Results of PBT and vPvB assessment. The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII
12.6. Other adverse effects: No adverse effects

13、DISPOSAL CONSIDERATIONS

Disposal methods：Dispose of according to local applicable regulations

14、TRANSPORT INFORMATION

14.1. UN number: Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).
14.2. UN proper shipping name: None
14.3. Transport hazard class(es): None
14.4. Packing group: None
14.5. Environmental hazards: None
14.6. Special precautions for user: No data available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: It is not intended to carry bulk.

15、REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture REGU LATION (EU) No 1357/2014 - waste: HP4 - Irritant — skin irritation and eye damage
15.2. Chemical safety assessment: The supplier has made an assessment of chemical safety

16、OTHER INFORMATION

Reference	1. Industrial Technology Research and Development Center of industrial safety & health examples of material safety data sheets.

	2.HSDB Library，CHEMpendium CD 3.OHS Library 4.TLVs and Other Occupational Exposure Values，ACGIH CD，1999.	
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