

Material Safety Data Sheets

1、PRODUCT AND COMPANY IDENTIFICATION

Product Name : Chain & Freewheel Cleaner
Product NO. : BIC-888
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)
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.PENTANE CAS No. 109~66~0
2.N-HEXANE CAS No. 110~54~3
3.N-HEPTANE CAS No. 142~82~5
Synonyms : Mixture of organic solvents
Chemical Identity (Concentration Ranges) :
PENTANE 8%
N-HEXANE 20%
N-HEPTANE 12%

3、HAZARD IDENTIFICATION

Hazard statement : Inhalation, skin contact or splashed into the eyes may cause irritations, vapor may cause dizziness and suffocation; it may lead to central nervous system lesions.
Environmental Impact : Can be toxic to aquatic life. Keep out of sewers and waterways.
Physical and chemical hazards : 1. Combustible liquid and easy-volatile. 2. Vapor is heavier than air, leaking will be spread to a distance with the ground. 3. Encountered fire ignited immediately
Special hazard : -NA-
The main symptoms : Excitement, halo sleep, headache, dizziness, muscle incoordination, nausea, abdominal swelling, eyes and skin to stimulate a sense of loss of consciousness, peripheral neuritis, or lesions.
Classification of the substance or mixture : 3 (Flammable liquids)

4、FIRST-AID MEASURES

Description of Necessary first-aid measures : Inhalation : As soon as possible the injured away from the scene, go to the quiet and cool, well-ventilated places, such as pale and allows it to lie flat; release the collar and belt and immediately taken to hospital. Skin Contact : Immediately flush with plenty of water. If Irritation develops, get medical attention. Take off cloth and wash clean immediately If the skin or tingling feeling so hot, immediately sent rescue and treatment, is equal to burns. If the skin is not painful or red and dry feeling can be observed 6 hours, and then decide whether or hospital. Eye Contact : Immediately flush with plenty of Water for at least 15 minutes, if irritation Persists, get medical attention. Ingestion : Do not Induce vomiting, so as not to cause lung complications, at the same time

release the collar and belt and immediately taken to hospital
Most important symptoms/effects, acute and delayed : Cause eye and skin irritation
For first-aid responders : Avoid inhalation of vapor. Do not Induce vomiting. Get medical attention Immediately.
Indication of immediate medical attention and special treatment needed : Inhalation poisoning may consider the use of oxygen-assisted breathing.

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 : <ol style="list-style-type: none"> 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 have 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

Appropriate engineering controls :

Working area: No special ventilation requirements. General

Room ventilation is adequate.

Control parameters :

Chemical Identity	PEL-TWA Sodium Hydroxide Sodium Metasilicate	PEL-STEL	PEL-CEILING	BEIs
戊烷(PENTANE)	600ppm(1770 mg/m ³)	750ppm(2212mg/ m ³)	----	n/a
正己烷 (N-HEXANE)	50ppm(176mg/ m ³)	75ppm(264mg/m ³)	----	(2.5-Hexanedione)/ (creatinine)
正庚烷 (N-HEPTANE)	400ppm(1640 mg/m ³)	500ppm(2050mg/ m ³)	----	n/a

Personal Protection Equipment (PPE) :

Respiratory protection : No information available under normal use conditions.

Need protection when spray.

Hand protection : Use rubber gloves

Eye protection : Wear eye protection glasses when spray.

Skin and body protection : Wear protection clothes to prevent skin contact.

Hygienic measures :

- (1) Do not wear contact lenses work, attention to personal hygiene, work completed to clean and change clothes before eating, face, hands should be washed with soap and water.
- (2) Smoking or eating is prohibited in the workplace.
- (3) Handle in accordance with good industrial hygiene and safety practice.
- (4) Have regular health checks.

9、PHYSICAL AND CHEMICAL PROPERTIES

Physical State : aerosol spray	Shape : None
Color : Transparent	Odor : Moderate
pH Value : None	Boiling point/range : 60~107°C (140~225°F)

Decomposition Temperature : None	Flash point : ~ 120°C
Auto-ignition temperature spontaneous combustion : ~250°C (~ 482°F)	Upper/lower flammability or Explosive limits : 1.2% ~ 7.5% (Reference Value)
Vapor pressure : 19.4 kpa(100°F/37.8°C)	Vapor density : (air=1) : > 1
Density : 0.669~0.702(60°F/15.56°C)	Solubility : slightly soluble in water

10 ▾ STABILITY AND REACTIVITY

Chemical stability : This product is stable
Possibility of hazardous reactions : To avoid the heat, smoke, and static electricity is strictly prohibited.
Conditions to avoid : To avoid the heat, is strictly prohibited pyrotechnics and static electricity, isolated from a variety of ignition sources.
Incompatible materials : (NICKEL CARBONYL) +(OXYGEN)
Hazardous decomposition products : Thermal decomposition may release toxic carbon oxides.

11 ▾ TOXICOLOGICAL INFORMATION

Acute toxicity :
Acute : Can cause eye, skin, mucous membrane of the stimulating effect.
Chronic : Affect the blood system, memory loss, four pain and numbness, and changes in behavior.
Interactive effects : Central nervous system obstruction, suppression. Skin irritants.
Sensitivity : N/A
Chronic toxicity or long-term toxicity : May affect the liver and kidney function, nervous system and blood system.

12 ▾ ECOLOGICAL INFORMATION

Persistence and degradability :
1. Mainly exist in the gaseous environment, gas in the atmosphere with the product of the role of photochemical decomposition, half-life of 4.1 days.
2. The mobility in soil is low and susceptible to soil adsorption.
3. In the soil or water can be broken down by microorganisms, but not as the main channel, the main role is to play and absorption.
4. Will play in the water to the atmosphere, from the simulation of rivers and lakes simulation test, half-lives were 2.5 hours and 3.5 days.
5. log BCF value of 1.90 ~ 2.35, not easy to accumulate water creatures.

13 ▾ DISPOSAL CONSIDERATIONS

Disposal methods : Dispose of according to local applicable regulations

14 ▾ TRANSPORT INFORMATION

International shipping regulations :
The need for transportation vehicles and related packaging label.
UN No. :
Domestic transport regulations :
(1) Article 84 of the Road Traffic Safety Rules
(2) Ships carrying dangerous goods rules.

(3) Taiwan Railway Administration is handling the transport of dangerous goods implementation details.

Special precautions : ----

15 、 REGULATORY INFORMATION

Applicable laws and regulations :

1. Regulation on the Labor Safety and Health Facilities
2. General Rule on Dangerous Harmful Materials
3. Standards on the concentration Limits of Harmful Materials in the Air at Workplace
4. Road Traffic Safety Rules
5. Volatile Organic Compounds Air Pollution Control and Emission Standards

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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