Material Safety Data Sheet

Chromatography Media

CELLUFINE MAX Phenyl / MAX Phenyl LS

1. Product & Company Identification

Product Name: Cellufine MAX Phenyl, Cellufine MAX Phenyl LS

General Use: : Liquid Chromatography media

Product Description: : Beads slurry of cross linked cellulose containing ion exchange group in 20% of EtOH/H_2O

MSDS Number: : CF039EN

Manufacture

Company Name: : JNC CORPORATION

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Component	CAS No.	EINECS No.	Chemical Formula
CELLUFINE MAX Phenyl CELLUFINE MAX Phenyl LS	Not listed	Not listed	Highly cross linked cellulose containing phenyl group
EtOH	64-17-5	200-578-6	CH_3CH_2OH
Water	7732-18-5	231-791-2	H_2O

2. Hazards identification

Emergency overview

May be harmful if inhaled and ingested.
May cause eye and skin irritation.

3. First aid measures

General advice: : Wash off immediately with soap and plenty of water. In the case of inhaling dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

Inhalation: : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult physician.

Eye: : Remove any contact lenses at once. Fresh eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

Skin	: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.
Ingestion	: Rinse mouth and give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.
Protection to first-aides	
Note to physician	: Treatment may vary with condition of victim and specifics of incident.

4. Fire-fighting measures

Flammable properties	: Flammable
Extinguishing media	: Carbon dioxide, dry chemical powder, alcohol resistant form, water
Fire fighting instructions	: Wear full fire-fighting turnout gear (full banker gear) and respiratory protection (self-contained breathing apparatus).

5. Accidental release measures

Personal precautions	: Remove ignition sources and ventilate area. In case of insufficient ventilation, wear suitable respiratory
Environmental precautions	: Prevent spills from entering sewers, watercourses or low area.
Methods for clean up	: Do not touch spilled material without suitable protection (See section 8). Take up spilled material with ashes or other absorbents. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all waste in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

6. Handling and storage

Handling	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.
Storage	: After opened bottle store away from sunlight in a cool (2-8 ºC {35.6-46.4 ºF}) well –ventilated dry place.
Incompatible products	: Oxidizers, peroxides, acids, alkalis, anhydrides

7. Exposure controls/personal protection

Engineering measures	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.
Ventilation	: Local exhaust ; Necessary, Mechanical (General) ; Recommended
Control parameter	
OSHA Final limits	: None established (CELLUFINE MAX Phenyl / MAX Phenyl LS), TWA= 1000 ppm, 1900 mg/m^3 (EtOH)
ACGIH TLV(s)	: None established (CELLUFINE MAX Phenyl / MAX Phenyl LS), TWA= 1000 ppm, 1880 mg/m^3 (EtOH)

Personal protection

Respiratory protection	: None established (CELLUFINE MAX Phenyl / MAX Phenyl LS)
Hand protection	: Chemical resistant gloves
Eye protection	: Safety glasses (goggles)
Skin protection	: Protective clothing

8. Physical and chemical properties

Appearance	: Suspension: White. / Solution: Colorless / Liquid and Suspension
ODOR	: Sweetish. Slightly alcohol-like.
pH	: Not available
Boiling point	: Not available
Melting point	: Not available
Flash point	: Not available
Flammability (solid, gas)	: Not available
Decomposition temperature	: Not available
Explosive limits	: Not available
Vapor pressure	: Not available
Specific gravity	: Not available
Solubility in;	
Water	: Insoluble
log Po/w	: Not available

9. Stability and reactivity

Condition to avoid	: Sunlight, heat, ignition(spark or flame)
Incompatibility (material to avoid)	: Oxidizers, acids, alkalis
Hazardous decomposition products	: Carbon monoxide and nitrogen oxides may be formed
Hazardous polymerization	: Will not occur.

10. Toxicological information

	CELLUFINE MAX Phenyl, Phenyl LS	EtOH
Acute toxicity data	: Not available	: TDLo (oral, infant): 11712 μL/kg (JOUOD4 9, 53, 1987) : TDLo (oral, man): 700mg/kg (NTOTDY 8, 77, 1986) : LD50 (oral, rat): 9,000mg/kg (VCVGK* -,93, 1984) : LC50 (ihl, rat): 20,000ppm/10H (NPIRI* 1, 44, 1974)
Irritation data	: Not available	: Skin; rabbit; 20mg/24H; Moderate (85JCAE -, 189, 1986) : Eye; rabbit; 500mg/24H; Mild (85JCAE -, 189, 1986)
Mutation data	: Not available	: DNA damage; S. cerevisiae; 850mmol/L (MUREAV326, 165, 1995) : Mutation in microorganisms; S. typhimurium; 11pph (ENVRAL 52, 225, 1990) : Cytogenetic analysis; human; lymphocyte; 2.5pph/24H (MUREAV 537,117, 2003)
Reproductive effects	: Not available	: TDLo (oral, woman): 250mg/kg (37 W preg); Effects on embryo or Fetus – other effects to embryo (AJOGAH 145, 251, 1983) TDLo (oral, rat): 22.5mg/kg (11-20 D preg); Specific Developmental Abnormalities – Central Nervous Systems (NETEEC 24, 719, 2002)
Tumorigenic data	: Not available	: TDLo (oral, mouse): 320mg/kg/50W-I (CALEDQ 13, 345, 1981)

11. Ecological information

	CELLUFINE MAX Phenyl / Phenyl LS	EtOH
Biodegradability	: Not available	: Biodegradable
Bioaccumulation potential	: Not available	: Not available
Aquatic toxicity	: Not available	: Not available
Other information	: Not available	: WGK; 1

12. Disposal consideration

Burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local or state and federal laws and regulations (contact country, local or state environmental agency for specific rules).

13. Transport information

Transport Of Dangerous Goods Model Regulations	: Not classified. An aqueous solution containing not more than 24% alcohol by volume is not subject to these Regulations. (CHAPTER 3.3.1, 144, 2007)

14. Regulatory information

	CELLUFINE MAX Phenyl, Phenyl LS	EtOH
US Regulations	; Not listed	; CAA/111 Volat. Org. Comp, NIOSH Recommend. Subst., IARC Subst. Overall Eval., NTP Test. Prog., DOT Haz. Mat., Mass. Subst. List, New Jers. RTK Haz. Subst. List, Canad. WHMIS IDL 0.1% conc.
EU regulations	; Not listed	; SYMBOL: F R-phrases: 11 S-phrases: 7-16 Keep container tightly closed. Keep away from sources of –No smoking. EC index No: 603-002-00-5

15. Other information

No specific notes

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