

SAFETY DATA SHEET

Chainj

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : Chainj
Product type : Liquid.
Use of the substance/preparation : Synthetic bicycle lubricant.
Supplier/Manufacturer : Pedro's Incorporated
 600 Research Drive
 Wilmington, Massachusetts 01887

e-mail address of person responsible for this SDS : msds@pedros.com

Emergency telephone number (with hours of operation) : CHEMTREC International: (703) 527-3887
 24/7

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
Sweden				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1-5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1-5	265-091-3	Not classified. [2]
Denmark				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Norway				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Netherlands				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1-5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1-5	265-091-3	Not classified. [2]
Belgium				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Spain				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Czech Republic				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Poland				

3. COMPOSITION/INFORMATION ON INGREDIENTS

Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Greece				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]
Portugal				
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	1 - 5	265-090-8	Not classified. [2]
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	1 - 5	265-091-3	Not classified. [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Obtain medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
 - Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor

6. ACCIDENTAL RELEASE MEASURES

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ingredient name	Occupational exposure limits
Europe/Luxembourg	
No exposure limit value known.	
Sweden	
Distillates (petroleum), solvent-refined heavy paraffinic	AFS 2005:17 (Sweden, 6/2007). STEL: 3 mg/m ³ 15 minute(s). Form: Mist & Fume TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Fume
Distillates (petroleum), solvent-refined light paraffinic	AFS 2005:17 (Sweden, 6/2007). STEL: 3 mg/m ³ 15 minute(s). Form: Mist & Fume TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Fume
Denmark	
Distillates (petroleum), solvent-refined heavy paraffinic	Arbejdstilsynet (Denmark, 8/2007). TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Particles.
Distillates (petroleum), solvent-refined light paraffinic	Arbejdstilsynet (Denmark, 8/2007). TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Particles.
Norway	
Distillates (petroleum), solvent-refined heavy paraffinic	Arbejdstilsynet (Norway, 11/2007). TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Particles. TWA: 50 mg/m ³ 8 hour(s). Form: Vapour
Distillates (petroleum), solvent-refined light paraffinic	Arbejdstilsynet (Norway, 11/2007). TWA: 1 mg/m ³ 8 hour(s). Form: Mist & Particles. TWA: 50 mg/m ³ 8 hour(s). Form: Vapour
France	
No exposure limit value known.	
Netherlands	
Distillates (petroleum), solvent-refined heavy paraffinic	MinSZW Wettelijke Grenswaarden (Netherlands, 1/2008). MAC-TGG, 8 uur: 5 mg/m ³ 8 hour(s). Form: Mist
Distillates (petroleum), solvent-refined light paraffinic	MinSZW Wettelijke Grenswaarden (Netherlands, 1/2008). MAC-TGG, 8 uur: 5 mg/m ³ 8 hour(s). Form: Mist
Germany	

No exposure limit value known.

Finland

No exposure limit value known.

United Kingdom (UK)

No exposure limit value known.

Austria

No exposure limit value known.

Switzerland

No exposure limit value known.

Belgium

Distillates (petroleum), solvent-refined heavy paraffinic

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).

STEL: 10 mg/m³ 15 minute(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Distillates (petroleum), solvent-refined light paraffinic

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).

STEL: 10 mg/m³ 15 minute(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Spain

Distillates (petroleum), solvent-refined heavy paraffinic

INSHT (Spain, 12/2007).

STEL: 10 mg/m³ 15 minute(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Distillates (petroleum), solvent-refined light paraffinic

INSHT (Spain, 12/2007).

STEL: 10 mg/m³ 15 minute(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Czech Republic

Distillates (petroleum), solvent-refined heavy paraffinic

178/2001 (Czech Republic, 12/2007).

STEL: 10 mg/m³ 15 minute(s).

TWA: 5 mg/m³ 8 hour(s).

Distillates (petroleum), solvent-refined light paraffinic

178/2001 (Czech Republic, 12/2007).

STEL: 10 mg/m³ 15 minute(s).

TWA: 5 mg/m³ 8 hour(s).

Italy

No exposure limit value known.

Estonia

No exposure limit value known.

Poland

Distillates (petroleum), solvent-refined heavy paraffinic

Ministra Pracy i Polityki Społecznej (Poland, 9/2007).

STEL: 10 mg/m³ 15 minute(s).

TWA: 5 mg/m³ 8 hour(s).

Distillates (petroleum), solvent-refined light paraffinic

Ministra Pracy i Polityki Społecznej (Poland, 9/2007).

STEL: 10 mg/m³ 15 minute(s).

TWA: 5 mg/m³ 8 hour(s).

Slovenia

No exposure limit value known.

Latvia

No exposure limit value known.

Greece

Distillates (petroleum), solvent-refined heavy paraffinic

PD 90/1999 (Greece, 8/2007).

TWA: 5 mg/m³ 8 hour(s).

Distillates (petroleum), solvent-refined light paraffinic

PD 90/1999 (Greece, 8/2007).

TWA: 5 mg/m³ 8 hour(s).

Portugal

Distillates (petroleum), solvent-refined heavy paraffinic

Instituto Português da Qualidade (Portugal, 3/2007).

STEL: 10 mg/m³ 15 minute(s). Form: Aerosol.

Distillates (petroleum), solvent-refined light paraffinic

TWA: 5 mg/m³ 8 hour(s). Form: Aerosol.
Instituto Português da Qualidade (Portugal, 3/2007).
 STEL: 10 mg/m³ 15 minute(s). Form: Aerosol.
 TWA: 5 mg/m³ 8 hour(s). Form: Aerosol.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Hygiene measures

: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Protection based on MAL

: **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

Application: When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Liquid. [Clear.]

Colour : Straw.

Odour : Mild.

Odour threshold : Not available.

Important health, safety and environmental information

pH : 6.5 to 7.5

Melting point : <-39°C (<-38.2°F)

Flash point : Closed cup: >177°C (>350.6°F) [Pensky-Martens.]

Solubility : Partially soluble in the following materials: n-octanol.
Insoluble in the following materials: cold water and hot water.

Viscosity : Kinematic: 0.043 cm²/s (4.3 cSt)

10. STABILITY AND REACTIVITY

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions to avoid : No specific data.

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

11. TOXICOLOGICAL INFORMATION

Potential chronic health effects

Reproductive toxicity

Product name	List name	Classification
Netherlands Distillates (petroleum), solvent-refined heavy paraffinic	Netherlands Carcinogenic Chemicals	Carc.
Distillates (petroleum), solvent-refined light paraffinic	Netherlands Carcinogenic Chemicals	Carc.
Hungary Distillates (petroleum), solvent-refined heavy paraffinic	Hungary Occupational Exposure Values	Carc. k
Distillates (petroleum), solvent-refined light paraffinic	Hungary Occupational Exposure Values	Carc. k

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

12. ECOLOGICAL INFORMATION

Environmental effects : No known significant effects or critical hazards.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

International transport regulations

ADR/RID / IMDG / IATA Classes : Not regulated by any transport mode.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- Risk phrases** : This product is not classified according to EU legislation.
- Safety phrases** : S2- Keep out of the reach of children.
- Product use** : Consumer applications, Industrial applications.
- Europe inventory** : All components are listed or exempted.

Other EU regulations

- Additional warning phrases** : Contains Calcium dinonylnaphthalene sulfonate. May produce an allergic reaction.

National regulations

Denmark

- Risk phrases** : Not classified.
- Safety phrases** : S2- Keep out of the reach of children.
- Additional warning phrases** : Contains Calcium dinonylnaphthalene sulfonate. May produce an allergic reaction. Safety data sheet available for professional user on request.
- MAL-code** : 00-1

Norway

- Risk phrases** : Not classified.
- Safety phrases** : S2- Keep out of the reach of children.
- Carcinogenic class** : Not classified.

France

- Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

- Hazard class for water** : 3 Appendix No. 4

Austria

- Limitation of the use of organic solvents** : Permitted.

Switzerland

- Poison class** : Not regulated
- BAG T** : 619000
- VOC content** : Liberated.

Italy

- Emission control directive** : 100% Not classified.

16. OTHER INFORMATION

History

- Date of issue** : 07/31/2008
- Version** : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.