



MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 09/03/2006

PRODUCT NAME: Eclipse Orange Industrial Strength Citrus Degreaser

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

PRODUCT NAME	: Eclipse Orange Industrial Strength Citrus Degreaser	Product Number: 395
PRODUCT USE	: Industrial Strength All Purpose Citrus Degreaser & Deodorant	

MANUFACTURER	: Pioneer Eclipse Corp.	
P.O.BOX	: 909	
ADDRESS	: 1 Eclipse Road, Sparta NC28675, USA	
PHONE	: +1 336 372 8080	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases
Limonene	227-813-5	80-90%	5989-27-5	Xi(irritant) N (Dangerous for the environment)	R10, R38, R43, R50-53

*See section 16 for the full text of relevant R phrases

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Flammable
Human health hazards: Flammable and irritating to skin and eyes.
Environmental hazards: Dangerous to the Environment

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Eye: Causes eye irritation. Causes redness and pain.
Skin: Causes skin irritation. Causes redness and pain.
Ingestion: Harmful if swallowed.
Inhalation: May cause nose, throat and respiratory tract irritation.

FIRST AID MEASURES

Inhalation: If breathing is difficult: Remove to fresh air. Get medical attention immediately.
Ingestion: Do not induce vomiting! Immediately drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin contact: Immediately wash off with plenty of water for at least 15 minutes. Get medical attention immediately.
Eye contact: Immediately wash out with water for at least 15 minutes. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide
Hazardous combustion products: None
Unusual fire and explosion hazards: None

PRODUCT NAME: Eclipse Orange Industrial Strength Citrus Degreaser**6. ACCIDENTAL RELEASE MEASURES**

- Small spills:** Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.
- Large spills:** Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before re-use.
- Storage:** Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- Exposure limit values:** None established.
- Exposure controls:** No special ventilation requirements. Ensure adequate general ventilation.

OCCUPATIONAL EXPOSURE CONTROLS

- Respiratory protection:** No specific personal protection is required.
- Hand protection:** Rubber gloves recommended
- Eye protection:** Safety glasses recommended
- Skin protection:** If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.
- Environmental exposure controls:** No specific environmental exposure controls required.

9. PHYSICAL AND CHEMICAL PROPERTIES**GENERAL INFORMATION**

Appearance: Thin orange liquid

Odour: Citrus

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: NA

Flash point: 47°C

Oxidizing properties: Not an oxidizer

Relative density: 0.85 kg/l @ 20°C

Partition coefficient (n-octanol/water): Not determined

Vapour density: Greater than air

Boiling point/boiling range: 177°C

Explosive properties: None

Vapour pressure: Greater than water

Solubility: emulsifies

Viscosity: less than 5 CPS @ 20°C

Evaporation rate: Less than water

10. STABILITY AND REACTIVITY

- Conditions to avoid:** None known
- Materials to avoid:** None known
- Hazardous decomposition products:** None known

PRODUCT NAME: Eclipse Orange Industrial Strength Citrus Degreaser**11. TOXICOLOGICAL INFORMATION**LIMONENE**Component Summary****Acute Toxicity:** LD₅₀ oral (Rat) >5000 mg/kg; acute dermal LD₅₀ (rabbit) >5000 mg/kg**Potential Health Effects****Eye:** Causes eye irritation. Causes redness and pain.**Skin:** Causes skin irritation. Causes redness and pain.**Ingestion:** Harmful if swallowed.**Inhalation:** May cause nose, throat and respiratory tract irritation.**Chronic:** May cause drying, defatting and dermatitis of skin.**CARCINOGENICITY:** Not expected to occur.**PREPARATION SUMMARY****LOCAL EFFECTS****Skin contact:** See Section 4.**Eye contact:** See Section 4.**Sensitization:** None known**Chronic effects:** None known**SPECIFIC EFFECTS****Carcinogenicity:** None known**Reproductive effects:** None known**Teratogenicity:** None known**Mutagenicity:** None known**12. ECOLOGICAL INFORMATION****COMPONENT SUMMARY**Limonene

96 hour LC50 fathead minnow: 702 mg/l (flow-through)

PREPARATION SUMMARY**Ecotoxicity:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Environmental Fate:** This preparation will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.**Bioaccumulation:** Because of this preparation's rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems.**13. DISPOSAL**

Disposal of this material should be in accordance with local, regional and national regulations.

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14. TRANSPORT INFORMATION

INTERNATIONAL TRANSPORTATION REGULATIONS:

UN number: UN1993
Packing group: III
LAND-ROAD/RAILWAY
Proper shipping name: Flammable liquids, n.o.s. Contains Terpene Hydrocarbons
ADR/RID class: 3
ADR/RID item number: 30°C

SEA

Proper shipping name: Flammable liquids, n.o.s Contains Terpene Hydrocarbons
IMDG class: 3
Medical First Aid Guide (MFAG): 330
Emergency Schedules (EmS): Fire F-E, Spillage S-E
Marine Pollutant: yes

15. REGULATORY INFORMATION

NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

EU REGULATIONS



HAZARD SYMBOL:

EU Classification: Classified as Flammable and Dangerous to the Environment according to current legislation (67/548/EEC, 1999/45/EC).

Risk phrases: See Section 16.

Safety phrases:

- S1/2- Keep locked up and out of the reach of children.
- S13-Keep away from food, drink and animal feeding stuffs.
- S24/25-Avoid contact with skin and eyes.
- S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
- S45-In case of accident or if you feel unwell, seek medical advice immediately.
- S60-This material and its container must be disposed of as hazardous waste.
- S61-Avoid release to the environment.

EINECS Status: All ingredients are included in the EINECS inventories.

CANADA CPR Status: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the

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information required by the *Controlled Products Regulations*.

OTHER DATA

The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member states and will be made available to them, at their direct request or at the request of the detergent manufacturer.

16. OTHER INFORMATION**Relevant R phrases**

R10-Flammable.

R38-Irritating to the skin.

R43-May cause sensitization by skin contact.

R50/53-Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Detergent/Cleaner labeling (89/542/EEC): (5-10%) anionic surfactant, (5-10%) Non-ionic surfactant

Issued by:

Timothy J Wright, Chemical R&D Manager

Revision Information:

09/03/2006, revision conforming to 648/2004/EC