



1. Identification

ISAFLUIDO 433 HD

Product Use: Lubricating oil

Product Code: 320400

Company Identification

ICONIC Lubrificantes S.A.
Avenida das Américas, 3434, Bloco 2, 7o andar
CEP 22640-102 – Barra da Tijuca Rio de Janeiro
Brasil
www.iconiclubrificantes.com.br

Response to the emergence of transport

Brasil: 0800 704 2230, 2 (24h)

Medical emergency

Brasil: 0800 704 2230, 2 (24h)

Central Ipiranga

3003 3451 - capitais e regiões metropolitanas
0800 720 5356 - demais regiões
www.portal.ipiranga

2. Hazards Identification

2.1. Chemical hazard according to (REGULATION (EC) No 1272/2008)

Chemicals not classified as dangerous according to (REGULATION (EC) No 1272/2008)

2.2. Appropriate labeling elements

Not applicable

2.3. Other hazards which do not result in classification

Not applicable

3. Composition and information about ingredients

3.1 Mixture

This material is a mixture

3.2 Hazardous components within the meaning of the CLP Regulation and related classification:

Components	Concentration (%)	CAS Number	EC Number	Classification
Mineral Oils *	-	Confidential	Confidential	NA

* Ingredient not classified as dangerous according to CLP Regulation and related classification.



4. First aid actions

Note: Consult a physician in case of malaise, presenting this MSDS

Inhalation

In case of symptoms, move affected person to fresh air.

Contact with skin

In case of contact it is recommended to clean the affected area with abundant water and neutral soap. Remove contaminated clothing and shoes immediately. In case of skin changes (burning, redness, rash, cutaneous, blistering, etc.) consult a doctor, presenting these Safety Data Sheets.

Contact with eyes

Rinse with water until complete disposal. Remove contact lenses. Keep eye open while washing with plenty of water. In case of malaise, seek medical advice, showing the MSDS of this product.

Ingestion

In case of ingestion of large amounts it is recommended to seek medical attention.

Most important symptoms or effects, or late

Acute and delayed effects are indicated in sections 2 and 1 where applicable.

Note to doctor

Not applicable

5. Fire Fighting Measures

Extinguishing media

In case of combustion as a consequence of manipulation, storage or improper use any type of extinguishing agent (powder, ABC, water, etc.) may be used.

Specific hazards

Due to its flammability characteristics, the product does not present a fire hazard under normal conditions. Burning produces noxious and toxic fumes.

Protective measures of the fire-fighting team

Depending on the magnitude of the fire, full protective clothing and self-contained breathing apparatus may be required. Have a minimum of emergency facilities or elements of action (fire blankets, portable pharmacy, etc.). In case of fire, wear self-contained breathing apparatus.

Additional Information

Collect contaminated fire extinguishing water separately. This should not be discharged into drains. Fire residues and contaminated fire extinguishing water should be disposed of in accordance with local regulations.

6. Control Measures for Spill or Leak

Personal precautions, protective equipment and emergency procedures

Sweep and collect the product with shovels or other media and discard in a container for reuse (preferably) or for disposal. Wear personal protective equipment. Ensure adequate ventilation.

Environmental Precautions

Harmful to aquatic organisms, may cause long-term effects. Keep away from sewage, surface and ground water. If the product contaminates rivers and lakes or drains inform the respective authorities.

Methods and materials for containment and cleaning



Soak with inert absorbent material (eg sand, silica gel, acid binder, universal binder, sawdust). It is recommended to sweep and collect product with shovels or other media and pour into container for reuse (preferably) or disposal.

Reference to other sections

See sections 8 and 13

7. Handling and Storage

Precautions for safe handling

Comply with current legislation on the prevention of occupational hazards. Keep containers tightly closed. Control spills and residues by disposing of them with safe methods. Avoid free spillage from the container. Maintain order and cleaning where dangerous goods are handled. For personal protection, see section 8. Smoking, eating and drinking are prohibited in the area of application. Discard rinse in accordance with local and national regulations.

Precautions against fire or explosion

Normal measures for preventive protection against fire.

Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during handling, washing hands with suitable cleaning agents.

Technical recommendations to prevent risks to the environment

Avoid contamination of the aquatic environment

Safe storage conditions, including any incompatibility

Technical storage measures

Minimum temperature: 5 °C

High Temperature: 30 °C

Maximum Time: According to Technical Product Specification

General conditions of storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information, see item 10.5

Specific end uses

Except as otherwise indicated, it is not necessary to make any special recommendations regarding the uses of this product.

8. Exposure control and personal protection

8.1. Control Parameters

Occupational exposure limits

Substances with occupational exposure limit values that must be controlled in the workplace (NR15 - Annex 11, chemical agents whose health is characterized by a tolerance limit and workplace inspection): there are no environmental limits for the substances that constitute the product.

8.2. Engineering control measures

Personal protection measures

The use of basic personal protective equipment is recommended as a protective measure. The information given in this section refers to the pure product. The protective measures for the diluted product may vary depending on the degree of dilution, use, method of application. In order to determine the fulfillment of the installation of emergency and / or eyewash stations in the warehouses, the applicable regulations, applicable in each case, must be taken into account. All the information presented here is a recommendation and it is necessary for its implementation by the labor risk prevention services to be unaware of the additional prevention measures available to the company.

Breath protection

Protective equipment should be used in the event of fogging or if exposure limits are exceeded.

Specific hand protection

Mandatory hand protection: Protective gloves account for minor risks. Replace gloves with any signs of deterioration. For prolonged exposure to the product for professional / industrial users the use of chemical protective gloves is recommended.

Eye / face protection

Mandatory eye protection: Spectacles against splashing liquids. Clean daily and disinfect periodically according to the manufacturer's instructions. It is recommended to use in case of risk of splashes.

Body protection

BODY: Work clothes

FOOT: Work shoes non-slip

Complementary emergency measures

No additional emergency measures are required.

Environmental exposure controls

Under environmental protection legislation, it is recommended to avoid spilling both the product and its packaging into the environment.

9. Physical and Chemical Properties

9.1. Physical Appearance	
Physical state @ 20 °C	Liquid
Aspect	Not available
Color	L 3.5
Odor	Characteristic
9.2. Volatility	
Boiling point at atmospheric pressure	Not available
Steam pressure @ 25 °C	Not available
Steam pressure @ 50 °C	Not available
Evaporation Rate @ 20 °C	Not available
9.3. Product Characterization	
Density @ 20 °C	885,8 kg/cm ³
Relative density @ 25 °C	Not available
Kinematic viscosity @ 40 °C	94,13 cSt
Kinematic viscosity @ 100 °C	11 cSt
pH	Not available
Vapor Density @ 20 °C	Not available
Partition coefficient n-octanol / water	Not available

Solubility in water @ 20 °C	Insoluble. Soluble in organic solvents.
Property of solubility	Not available
Decomposition temperature	Not available
Melting point / freezing point	Not available
Pour point	- 27 °C
9.4. Flammability	
Flash point	241 °C
Auto-ignition temperature	Not available
Lower Flammability Limit	Not available
Upper Flammability Limit	Not available

10. Stability and Reactivity

Stability and reactivity: Product stable under normal conditions of temperature and pressure.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to Avoid: Avoid heat, flames, other sources of ignition and contact with incompatible materials.

Incompatible materials: Strong oxidizing agents such as peroxides, chlorates and nitrates.

Hazardous decomposition products: Light distillates and coke. On combustion can release irritating and toxic gases such as hydrogen sulfide, carbon monoxide and carbon dioxide.

11. Toxicological Information

In case of prolonged or repeated exposure, or at concentrations higher than those established by the occupational exposure limits, adverse health effects may occur depending on the exposure life.

DL50 (oral, rats): > 5000mg/kg

DL50 (dermal, rabbits): > 5000mg/kg

Ingestion - Acute effect

Acute toxicity: Product not classified as acute toxic by oral route.

Corrosivity / Irritation: Product not classified as acute toxic by oral route.

Inhalation - Acute effect

Acute toxicity: Product not classified as acute toxic by inhalation.

Corrosivity / Irritation: The product is not expected to present danger by inhalation.

Contact with skin and eyes - Acute effect

Skin contact: The product is not expected to be present on contact with skin.

Eye contact: The product is not expected to cause eye irritation.

CMR - Carcinogenic, Mutagenic and Reproductive Effects

Carcinogenicity: The product is not expected to be carcinogenic. Animal studies have shown positive and negative skin carcinogenicity through the dermal route. According to IPIECA, petroleum products that result in IP 346> 3% (w / w) are considered carcinogenic to the skin.

Mutagenicity: The product is not expected to show mutagenicity in germ cells.

Reproductive Toxicity: The product is not expected to produce reproductive toxicity.



Awareness effects

Respiratory: The product is not expected to cause respiratory sensitization.

Skin: The product is not expected to cause skin sensitization.

Specific target organ toxicity - Exposure time: Based on available data, the classification criteria are not met and do not contain substances classified as hazardous for this article.

Specific target organ toxicity - Repeated exposure: On the basis of the available data, the classification criteria are not met and do not contain substances classified as hazardous for this article.

Danger of aspiration: Product not classified as dangerous by aspiration.

Substance-specific information

Not applicable

12. Ecological Information

12.1. Environmental effects, behavior and impacts of the product

Ecotoxicity: Product not classified as toxic to aquatic environment. CE50 (Daphnia magna, 48h):> 1000 mg / L.

Persistence and degradability: Low degradability and high persistence are expected.

Bioaccumulative potential: Presents bioaccumulative potential in aquatic organisms. Log Kow: 3.9 - 6.0.

Mobility in soil: Not determined.

Results for PBT and vPvB: Not determined.

12.2. Other side effects

The release of large amounts of product may cause undesirable environmental effects, such as decreased oxygen availability in aquatic environments due to the formation of oily layer on the surface, coating and consequent suffocation of animals.

13. Final Destination Considerations

Recommended methods for final destination

Prevent contamination of soil, drains and surface waters. Do not discharge on sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorized person/ licensed waste disposal contractor. The used product is to be considered a special waste to be classified in accordance to Directive 2008/98/EC on wastes and related legislation. Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. Shipping Information

Ground transportation

This product is not regulated for transport

UN number Not applicable

Proper shipping name Not applicable

Primary risk class or subclass Not applicable

Subsidiary risk class or subclass Not applicable

Packing group Not applicable



Waterway Transportation

This product is not regulated for transport

UN number Not applicable

Proper shipping name Not applicable

Primary risk class or subclass Not applicable

Subsidiary risk class or subclass Not applicable

Packing group Not applicable

Air Transport

This product is not regulated for transport

UN number Not applicable

Proper shipping name Not applicable

Primary risk class or subclass Not applicable

Subsidiary risk class or subclass Not applicable

Packing group Not applicable

Specific precautionary measures and conditions

Not applicable

Additional regulations

Not applicable

15. Regulatory Information

Safety , Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Regulation (EC) n. 1272/2008, with all National and European related legislations - on classification, labelling and packaging of substances and mixtures - and following adjustments to technical and scientific progress.

Restrictions related to the product: None

Restrictions Related to the Substances Contained: None Volatile Organic Compounds - VOC's = Not Available.

16. Other information

Sheet complies with the criteria of Annex I of Regulation (EU) n. 453/2010 as well as with Regulation (EC) n. 1272/2008 and Directive 99/45/EC and following adjustments.

This document was prepared by a competent person who has received appropriate training.

This product must not be used in applications other than recommended without first seeking the advice of the Technical Department.

This MSDS cancels and replaces any preceding release.

This product must be stored, handled and used according to correct industrial hygienic practices and in compliance with laws in force.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be considered as any guarantee of specific properties.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
EINECS: European Inventory of Existing Commercial Chemical Substances.
ATE: Acute Toxicity Estimate
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep away from heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population. LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available



NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.