

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER. PRODUCT TRADE NAME:

XADO RED Cleaner

EC №, CAS №, REACH registration №: mixture (see section 3). Molecular formula, IUPAC name: n/a.

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST
IDENTIFIED USES: Automobile fuel system additive. Professional use. USES ADVISED AGAINST: Consumer use.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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1.4 EMERGENCY PHONE NUMBER: Europe: 112 USA: 911

SECTION 2. HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE ACCORDING TO GHS and REGULATION (EC) № 1272/2008/EC: Asp. Tox. 1; H304. ADDITIONAL INFORMATION: The wording of H-phrases is specified in section 16. Specific concentration limits and M-factors: none.

HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

Inhalation	May cause headache, nausea.
Eyes effect	Expected no more than light irritation with short-term contact.
Skin effect	Repeated exposure may cause skin dryness or cracking.
Ingestion	May be fatal if swallowed and enters airways
Environmental effect	Major emissions may have a harmful or disturbing effect.

2.2 LABEL ELEMENTS ACCORDING TO GHS and REGULATION (EC) № 1272/2008/EC:



Signal Word: "Danger"

Hazard Statement - H-phrases:

H304: May be fatal if swallowed and enters airways

Precautionary Statement - P-phrases:

P102: Keep out of reach of children.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331: Do NOT induce vomiting.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics.

2.3 OTHER HAZARDS: Results of PBT or vPvB assessment: not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

SUBSTANCE OR MIXTURE: Mixture. CHEMICAL CHARACTERIZATION OF THE PRODUCT: hydrocarbons C11-C14, additives. HAZARDOUS INGREDIENTS:

Name	CAS №, EC №, Index №, REACH №	Concentration (wt. %)	Classification according to Regulation 1272/2008/EC
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC № 926-141-6, REACH № 01-2119456620-43-X	75 - 100	Asp. tox. 1, H304
2-Ethylhexan-1-ol	CAS № 104-76-7, EC № 203-234-3, REACH EC № 01-2119487289-20	1 - <10	Skin Corr./Irrit. 2, H315; Eye Dam./Irrit. 2, H319; Acute Tox. 4 (Inhalation - mist), H332; STOT SE 3, H335

The wording of the H-statements is specified in section 16. Occupational exposure limit values are listed in section 8. The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SECTION 4. FIRST-AID MEASURES

IF INHALED: Fresh air, rest. If difficulties occur after vapour/aerosol has been inhaled seek medical advice.

ON SKIN CONTACT: Wash thoroughly exposed skin with soap and water. Seek medical advice.

ON CONTACT WITH EYES: Immediately rinse open eyes with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention, if irritation occurs.

ON INGESTION: Immediately flush mouth thoroughly and then drink plenty of water. Immediately seek medical advice and show this safety data sheet. Do not induce vomiting without medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Never give anything by mouth to an unconscious person.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: See sections 2 and 11.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treatment: treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA SUITABLE EXTINGUISHING MEDIA: Foam, dry extinguishing media, water spray. **EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:** Full waterjet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

SPECIFIC HAZARD: No data available. **HAZARDOUS COMBUSTION PRODUCTS:** No data available.

5.3 ADVICE FOR FIREFIGHTERS

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Self-contained breathing apparatus, special fire-fighting clothing (including helmets, protective boots and gloves).

SPECIFIC METHODS: Move container away or cool with water spray jet from a protected position.

Prevent water used in emergency cases from entering sewers and drainage systems.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, POTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Only personnel, eliminating accident consequences, can stay stay in the area. Use personal protection equipment. Ensure adequate ventilation of the area. Eliminate leakage observing safety precautions.

Avoid inhalation. Avoid contact with the skin, eyes and clothing.

6.2 ENVIRONMENTAL PRECAUTIONS Prevent spread over a wide area. Do not allow to enter sewers and drainage systems/surface waters/groundwater/soil. Inform local authorities when the product has entered sewers or drainage systems, soil or surfacewater.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP For large amounts: pump off product. The waste must be covered with suitable absorbent material (e.g. sand, placed in containers for chemical waste) and disposed of according to section 13 of this Safety data sheet. Clean contaminated area with a water-diluted soap. **6.4 REFERENCE TO OTHER SECTIONS:** See also section 8.2.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING Take precautionary measures against static discharges. Observe the occupational safety rules and personal hygiene rules. Do not eat in work area. See also section 2.2.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE: Store the product in original, not damaged tightly closed package, in a well-ventilated cool and dry area. Storage temperature: -40 °C...+50 °C. **INCOMPATIBLE MATERIALS:** Oxidizing agents, nitrates, alkalis, inorganic acid chlorides, halogenated compounds. **REQUIREMENTS FOR THE PACKAGING:** The packaging must be strong, leakproof, and good for transportation. **FURTHER INFORMATION ON STORAGE CONDITIONS:** Do not store at sunlight. **7.3 SPECIFIC END USE(S):** None.

SECTUION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS: Occupational exposure limit value for Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, EC 926-141-6:

Substance Name	Form	Limit/Standard			Note	Source
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Vapour	RCP - TWA	1200 mg/m3	165 ppm	Total Hydrocarbons	ExxonMobil

8.2 EXPOSURE CONTROLS ENGINEERING CONTROLS: Work places must be well ventilated. Provide the places with local or general circulating ventilation system. Ensure that eyewash stations and safety showers are located close to the workstation. **RESPIRATORY PROTECTION:** Respirator (e.g. EN 14387 with filters type A). **HAND AND SKIN PROTECTION:** Suitable materials for gloves with short-term contact (>30 min): nitrile (NBR) 0.4 mm coating thickness. Manufacturer's directions for use should be observed because of great diversity of types. **EYE PROTECTION:** Wear

protective goggles with side-shields (e.g. EN 166). GENERAL HEALTH AND SAFETY MEASURES: See section 7.1.
 ENVIRONMENTAL EXPOSURE CONTROLS: See section 13.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	liquid
COLOR:	clear colorless
ODOUR:	characteristic
ODOUR THRESHOLD:	no information available
HYDROGEN ION CONCENTRATION (pH):	not applicable
MELTING POINT/FREEZING POINT, °C:	no information available
INITIAL BOILING POINT AND BOILING RANGE, °C	>180
FLASH POINT, °C:	>65
EVAPORATION RATE:	no information available
FLAMMABILITY (SOLID, GAS):	no classified as flammable, but will combust at high temperatures
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS, % vol.:	no information available
VAPOR PRESSURE, kPa	no information available
VAPOR DENSITY	no information available
RELATIVE DENSITY, kg/m ³ :	≥770 at 20 °C
SOLUBILITY(IES):	no information available
PARTITION COEFFICIENT: N-OCTANOL/WATER (Log Pow)	no information available
AUTO-IGNITION TEMPERATURE, °C	no information available
DECOMPOSITION TEMPERATURE, °C:	no information available
KINEMATIC VISCOSITY, mm ² /s	no information available
EXPLOSIVE PROPERTIES:	no information available
OXIDISING PROPERTIES:	no information available

9.2 OTHER INFORMATION: None.

SECTION 10. STABILITY AND REACTIVITY

10.1 REACTIVITY: None under normal conditions.

10.2 CHEMICAL STABILITY: Following strictly the rules of handling with the product and safety regulations, the product stays stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: None under normal conditions.

10.4 CONDITIONS TO AVOID: See section 7 and 2.2 **10.5 INCOMPATIBLE MATERIALS:** See section 7.2

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: No hazard decomposition products if stored and handled as prescribed/indicate.

SECTION 11. TOXICOLOGIC INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 Acute toxicity: Based on available data, the classification criteria are not met.

Toxicological properties of the ingredients of the product. *For hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, EC 926-141-6:*

Exposure	Value	Exposure time period	Species	Method
inhalation	LC50 > 5000 mg/m ³	8 hours	rat	OECD Guideline 403
dermal	LD50 > 5000 mg/kg	-	rabbit	OECD Guideline 402
oral	LD50 > 5000 mg/kg	-	rat	OECD Guideline 401

11.1.2 Skin corrosion/irritation: Based on available data, the classification criteria are not met.

11.1.3 Serious eye damage/irritation: Based on available data, the classification criteria are not met.

11.1.4 Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

11.1.5 Germ cell mutagenicity: Based on available data, the classification criteria are not met.

11.1.6 Carcinogenicity: Based on available data, the classification criteria are not met.

11.1.7 Reproductive toxicity: Based on available data, the classification criteria are not met.

11.1.8 STOT-single exposure: Based on available data, the classification criteria are not met.

11.1.9 STOT-repeated exposure: Based on available data, the classification criteria are not met.

11.1.10 Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY: Major emissions may have a harmful or disturbing effect. No test data available.

12.2 PERSISTENCE AND DEGRADABILITY: Biological degradability: expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL: Not determined.

12.4 MOBILITY IN SOIL: Expect to adsorb to soil and expect has low mobility.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Results of PBT or vPvB assessment: not applicable.

12.6 OTHER ADVERSE EFFECTS: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS 13.1.1 **PRODUCT/PACKAGING DISPOSAL** Dispose of contents/container in accordance with local/regional/national/international regulations. European waste code: 13 07 03 (wastes of liquid fuels; other fuels (including mixtures)). Must not be disposed together with household garbage. European package waste code 15 01 04 (metal packages). 13.1.2 **WASTE TREATMENT-RELEVANT INFORMATION:** See product handling information (section 7). 13.1.3 **SEWAGE DISPOSAL-RELEVANT INFORMATION:** Do not allow product to reach sewage system.

SECTION 14. TRANSPORT INFORMATION

The product is transported by air, railway, road or marine transport in compliance with the rules for this mode of transportation. The product is stored in the original packages.

The product is not classified as danger good according to ADR/RID, IMDG/IMO, ICAO/IATA.

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATION/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATION. THE PRODUCT IS NOT IN THE SCOPE OF DIRECTIVE 1999/13/EC AND DIRECTIVE 2004/42/EC.

REGULATIONS:

- GHS 05 (Globally Harmonized System of Classification and Labelling of Chemicals, Rev.05);
- ISO 11014:2009 Safety data sheet for chemical products – content and order of sections;
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);
- Regulation (EC) No 1272/2008/EC (CLP);
- Regulation (EU) No 453/2010;
- Commission regulation (EU) 2015/830;
- European commission directive 2009/161/EU list of occupational exposure limit values.
- European waste codes regulations: Commission decision of 3 May 2000 and Council Decision 94/904/EC;
- ADR 2023 (European agreement concerning the international carriage of dangerous goods by road).

15.2 CHEMICAL SAFETY ASSESSMENT: No data available for the product.

SECTION 16. OTHER INFORMATION

THE WORDING OF THE H-STATEMENT AS INDICATED IN SECTIONS 2 AND 3:

H304: May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation.

H332 Harmful if inhaled. H335 May cause respiratory irritation.

EVALUATION OF HAZARD INFORMATION FOR SUBSTANCES AND MIXTURES:

Classification of mixtures when data are available for all components or only for some components of the mixture, the theory of additivity (according to article 9 of Regulation (EC) No 1272/2008).

CHANGES AS COMPARED WITH PREVIOUS SDS VERSION: None.

USED ABBREVIATION: N/a - no information available. PBT and vPvB - "Persistent, Bioaccumulative and Toxic" and "very Persistent and very Bioaccumulative". SDS – Safety data sheet. TWA - time-weighted average. RCP - reciprocal calculation procedure.

SOURCES OF INFORMATION: site European Chemicals Agency (<http://apps.echa.europa.eu>), site The Information system on hazardous substances of the German Social Accident Insurance (GESTIS) (<http://gestis-en.itrust.de/>), site United Nation Economic Commission for Europe (<http://www.unece.org/>), Safety data sheets.

OTHER INFORMATION:

All information in this SDS is based on our current knowledge by the time of making SDS. Neither should any agreed property nor the suitability of the product for any specific purpose be deducted from the data contained in the safety data sheet.

It is an obligation for the users to use this product with care and to observe the applicable laws and regulations concerning the use of this kind of products. The company does not assume responsibility for deficiencies, damages or injuries resulted from non-compliance to the safety and other measurements of this Safety data sheet, nor for any defect or risk ensuing from the nature of the product, nor for abnormal applications of the product.

If the product is purchased with the aim to its further supply to the third party, the buyer must provide any person, handling with this product, with the information contained in this safety data sheet. The employers must inform their employees and other people, who can be exposed to any danger described in this Safety data sheet, about the necessary precautionary measures. End of the document.