

SAFETY DATA SHEET

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

1.1 PRODUCT IDENTIFIER: PRODUCT TRADE NAME:

XADO RED FLUSH

EC №, CAS №, IUPAC name: mixture (see section 3). Molecular formula: n/d. Ingredients REACH numbers: none.

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

IDENTIFIED USES: Flushing additive for engine oil system of an automobile. Consumer, industrial, professional use.

USES ADVISED AGAINST: No data available.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

EUROPEAN UNION IMPORTER/GERMANY: XADO Technology GmbH, Nüßlerstraße 8, 13088 Berlin, Germany.
Tel.: 0 800 777 7757, e-mail: info@xado.com, www.xado.de

GLOBAL SUPPLIERS: Visit www.xado.com

MANUFACTURER: XADO-Technology Ltd., 4, 23 Augusta Lane, Kharkov, 61103, Ukraine, Tel. +38 (057) 717-5555,
e-mail: laboratory@xado.com, responsible person: Denys Shaposhnikov

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: Skin Sens. 1; H317: May cause an allergic skin reaction.

ADDITIONAL INFORMATION: Specific concentration limits and M-factors: none.

HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

Inhalation	Inhalation of vapours (generated at high temperatures only) or oil mist may cause irritation of the respiratory tract, breathing difficulties, nausea, and headache.
Eyes effect	Expect mild irritation with short-term contact
Skin effect	May cause sensitisation by skin contact. Prolonged or repeated exposure may lead to dermatitis.
Ingestion	If aspirated into the lungs, liquid can cause severe lung damage or suffocation. Abdominal discomfort, nausea and diarrhea may occur.
Environmental effect	Major emissions may have a harmful effect.

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



Signal Word: "Warning"

Hazard Statement - H-phrases:

H317: May cause an allergic skin reaction.

Precautionary Statement - P-phrases:

P102: Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.

P280: Wear protective gloves.

P302+352: IF ON SKIN: Wash with soap and water

P333+313: If skin irritation or rash occurs: get medical advice/attention

P501: Dispose of contents/container according to local/regional/national/international legislation.

Contains sulfonic acids, petroleum, calcium salts.

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: Paraffin oil, additives. HAZARDOUS INGREDIENTS:

Name	EC №, CAS №, Index №	Concentration (wt. %)	Classification according to Regulation 1272/2008/EC
Sulfonic acids, petroleum, calcium salts	EC № 263-093-9, CAS № 61789-86-4	10 - <25	Skin sens.; H317// Aquatic chronic 4; H413

OEL values, if available, are listed in section 8. The wordings of H-statements see in section 16.

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

4.1 DISCRIPTION OF FIRST-AID MEASURES

FIRST-AID INHALATION: If discomfort occurs - fresh air and rest.

FIRST-AID SKIN: Wash exposed skin with soap and warm water. Obtain medical advise if irritation occurs.

FIRST-AID EYES: Immediately rinse with running water for several minutes with eyelids held open. Then remove contact lenses if present and easy to do – and continue rinsing for at least 15 min. Consult an eye specialist if discomfort persists.

FIRST-AID INGESTION: Immediately flush mouth thoroughly. 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 SYMPTOMPS AND EFFECTS, BOTH ACUTE AND DELAYED: See section 2.1.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically, not known special antidote.

SECTION 5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA_SUITABLE EXTINGUISHING MEDIA: Foam, powder.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: Full waterjet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

SPECIFIC HAZARD: When exposed to heat, may decompose liberating hazardous gases.

HAZARDOUS COMBUSTION PRODUCTS: Metal oxides, CO, CO₂, POx, NOx, SOx, H₂S, soot.

Under fire conditions, hazardous fumes will be present.

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.

Attention: High risk of slipping due to leakage/spillage of the product.

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 MATERIAL FOR CONTAINMENT AND CLEANING UP Gather not-contaminated product and use for intended purpose. The waste must be covered with 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 Observe the occupational safety rules and personal hygiene rules. Do not eat in the work area. Do not smoke. Avoid even short-term skin contact with used product. Avoid breathing vapours/oil mist. See also section 2.2.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE: Store the product in original, not damaged package, in a well-ventilated and dry area.

Storage temperature: -40 °C...+50 °C. **INCOMPATIBLE MATERIALS:** Oxidizing agents, acids, alkalis.

REQUIREMENTS FOR THE PACKAGING: The packaging must be strong, leakproof, and good for transportation.

FURTHER INFORMATION ON STORAGE CONDITIONS: Do not store at direct sunlights.

7.3 SPECIFIC END USE(S): No data available.

SECTUION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS Occupational exposure limit (OEL) value: oil mist, 8 hours, 5 mg/m³.

National OEL:

Country (standard)	Substance name	CAS №, EINECS №,	Occupational exposure limit value, 8 hours		Occupational exposure limit value, short term	
			mg/m ³	ppm	mg/m ³	ppm
France (INRS ED 984)	Calcium carbonate	CAS № 471-34-1	VME = 10	-	-	-

Spain (INSHT 2009)	Calcium carbonate	CAS № 471-34-1	VLA-ED [®] = 10	-	-	-
	Mineral oil (mist)	-	5	-	10	-
Latvia (LVS 89:2004)	Calcium carbonate	CAS № 471-34-1	AER = 6	-	-	-
	Mineral oil		AER = 5	-	-	-

8.2 EXPOSURE CONTROLS

ENGINEERING CONTROLS: Work places must be well ventilated (local or general circulating ventilation system). Ensure that eyewash stations and safety showers are located close to the workstation.

RESPIRATORY PROTECTION: Respirator (EN 14387). Filters: oil mist - type A/P, vapours - type A.

HAND AND SKIN PROTECTION: During handling with the product, use correspondent chemical protective clothing and gloves (EN 374). Recommended protective gloves (typical data): Nitrile 0.4 mm, breakthrough time 480 min; neoprene (chloroprene) 0.65 mm, breakthrough time 60 min. Due to many conditions (e.g. temperature) it must be considered, that a real breakthrough time may be much shorter than a typical breakthrough time. Manufacturer's directions for use should be observed.

EYE PROTECTION: Wear protective goggles (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

AGGREGATE STATE:	liquid
COLOR:	brown
ODOUR:	characteristic, mild
ODOUR THRESHOLD:	no information available
HYDROGEN ION CONCENTRATION (pH):	not applicable
MELTING POINT/FREEZING POINT, °C:	≤-15
INITIAL BOILING POINT AND BOILING RANGE, °C:	>150
FLASH POINT IN THE OPEN CUP, °C:	≥180
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 (AIR = 1):	>1
RELATIVE DENSITY, kg/m ³ :	≤1130 at 20 °C
SOLUBILITY(IES):	not soluble in water; soluble in organic solvents
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	>30 at 40 °C
EXPLOSIVE PROPERTIES:	not explosive
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. **10.5 INCOMPATIBLE MATERIALS:** See section 7.2.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, POx, NOx, SOx, H₂S, metal oxides. On exposure to high temperature, may decompose, releasing toxic and flammable vapours.

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 paraffin oil: oral, rat, LD50 = 24000 mg/kg.

- 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: May cause an allergic skin reaction.
- 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: Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 TOXICITY:** Major emissions or frequently recurring minor emissions may have a harmful or disturbing effect. No test data available.
- 12.2 PERSISTENCE AND DEGRADABILITY:** Biological degradability: not readily biodegradable.
- 12.3 BIOACCUMULATIVE POTENTIAL:** Not expected to bioaccumulate through food chains in the environment.
- 12.4 MOBILITY IN SOIL:** May penetrate the soil causing ground water contamination.
- 12.5 RESULTS OF PBT AND 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. **WASTE DISPOSAL:** Waste code: 13 02 05 - Mineral-based non-chlorinated engine, gear and lubricating oils. (Hazardous waste pursuant to Directive 91/689/EEC on hazardous waste). Must not be disposed together with household garbage. **DISPOSAL OF CONTAMINATED/DAMAGED PACKAGE:** Packaging with product residues must be utilized with its waste. Package waste code 15 01 10 (packaging containing residues of or contaminated by dangerous substances).
 - 13.1.2 **WASTE TREATMENT-RELEVANT INFORMATION:** Safety measures at disposal of wastes are the same as for the work with the main product (see sections 7 and 8).
 - 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 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): None.

THE PRODUCT IS NOT IN THE SCOPE OF DIRECTIVE 1999/13/EC AND DIRECTIVE 2004/42/EC.

VOLATILE ORGANIC COMPOUNDS ACCORDING SWITZERLAND LEGISLATION (VERORDNUNG ÜBER DIE LENKUNGSABGABE AUF FLÜCHTIGEN ORGANISCHEN VERBINDUNGEN (VOCV) 814.018). The product ingredients doesn't refer to The Positive List of substances (Stoff-Positivliste (der Abgabe unterstellte flüchtige organische Verbindungen, VOC)).

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 H-STATEMENTS AS INDICATE IN SECTION 3: H317: May cause an allergic skin reaction. H413: May cause long-lasting harmful effects to aquatic life.

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: GHS - The Globally Harmonized System of Classification and Labeling of Chemicals. SDS - Safety data sheet.

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.

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