

## SAFETY DATA SHEET

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

#### 1.1 PRODUCT IDENTIFIER:

PRODUCTS TRADE NAMES: VitaFlush, cleaner for engine oil system (in assortment):

- 1) VitaFlush, cleaner for engine oil system with revitalization effect;
- 2) VitaFlush, dense formula, cleaner of oil systems;
- 3) VitaFlush, intensive cleaner of engine oil system with revitalization effect.

EC No and CAS No: mixture (see section 3). Molecular formula: no data available. IUPAC name: no data available. Ingredients REACH numbers: none.

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

IDENTIFIED USES: Flushing oil 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

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

1.4 EMERGENCY PHONE NUMBER: Europe: 112 USA: 911 CIS countries: +7(495) 628-16-87

### SECTION 2. HAZARD IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

ACCORDING TO DIRECTIVE 1999/45/EC: Not danger.

ADDITIONAL INFORMATION: Classification and labelling according to GHS/Regulation (EC) No 1272/2008/EC see in section 15. 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, headache.
Eyes effect	May cause irritation
Skin effect	May cause irritation. 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 or disturbing effect.

#### 2.2 LABEL ELEMENTS ACCORDING TO DIRECTIVE 1999/45/EC:

Symbol of danger and R-phrases: none. S-Phrases:

**S2 Keep out of the reach of children.**

**S24/25 Avoid contact with skin and eyes.**

**S46 If swallowed, seek medical advice immediately and show this container or label.**

**S61 Avoid release to the environment. Refer to special instructions / Safety data sheet.**

**Safety data sheet available to professional users on request.**

2.3 OTER 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 and additives.

#### HAZARDOUS INGREDIENTS:

Name	CAS-No	EC No	Index No	Concentration (wt. %)	Classification according to 67/548/EEC	Classification according to 1272/2008/EC
Paraffin oil	8012-95-1	232-384-2	-	80 - 90	Not danger*	Not danger*
Calcium sulphonate	61789-86-4, 471-34-1	263-093-9, 207-439-9	-	11 - 17	Xi; R36/38, R53	Eye irrit. 2; H319// Skin irrit. 2; H315// Aquatic chronic 4; H413
Zinc alkyl dithiophosphat	68649-42-3	272-028-3	-	0,5 - 0,7	N, Xi; R38, R41, R51/53	Eye dam. 1; H318// Skin irrit. 2; H315// Aquatic chronic 2; H411

Occupational exposure limit values, if available, are listed in section 8.  
The wording of R-phrases and hazard symbols see in section 16.

## **SECTION 4. FIRST-AID MEASURES**

### **4.1 DISCRIPTION OF FIRST-AID MEASURES**

GENERAL INFORMATION: None.

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, CO<sub>2</sub>, POx, NOx, SOx, H<sub>2</sub>S, 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.

**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:

Ingredient name	Range	mg/m <sup>3</sup>
oil mist	8 hours	5

National occupational exposure limits:

Country (standard)	Substance name	CAS №, EINECS №,	Occupational exposure limit value, 8 hours		Occupational exposure limit value, short term	
			mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
France (INRS ED 984)	Calcium carbonate	CAS № 471-34-1	VME = 10	-	-	-
Spain (INSHT 2009)	Calcium carbonate	CAS № 471-34-1	VLA-ED <sup>®</sup> = 10	-	-	-
Latvia (LVS 89:2004)	Calcium carbonate	CAS № 471-34-1	AER = 6 mg/m <sup>3</sup>			

### **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. Recommended protective gloves (typical data):

Material	Thickness (mm)	Breakthrough time (min)	Level	according
Nitril.	0.4	480	8	EN 374
Neoprene (chloroprene)	0.85	60	3	EN 374

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 PHISICAL AND CHEMICAL PROPERTIES**

AGGREGATE STATE:	liquid
COLOR:	brown
ODOUR:	characteristic, mild
ODOUR THRESHOLD:	no information available
HYDROGEN ION CONCENTRATION (pH):	not applicable
MELTING POINT/FREEZENG 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:	<0.01
VAPOR DENSITY (AIR = 1):	>1
RELATIVE DENSITY, kg/m <sup>3</sup> :	≤950 at 20 °C
SOLUBILITY(IES):	not soluble in water; soluble in organic solvents
	no information available

AUTO-IGNITION TEMPERATURE, °C:	no information available
DECOMPOSITION TEMPERATURE, °C:	no information available
KINEMATIC VISCOSITY, mm <sup>2</sup> /s	not applicable
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, CO<sub>2</sub>, POx, NOx, SOx, H<sub>2</sub>S, 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: For paraffin oil, CAS № 8012-95-1: oral, rat, LD50 = 24000 mg/kg.

11.1.2 IRRITATION See section 2.1.

11.1.3 CORROSIVITY: Not expect.

11.1.4 SENSITIZATION: Not expect.

11.1.5 REPEATED DOSE TOXICITY: Repeated skin contact may cause defatting of the skin which can lead to dermatitis.

11.1.6 CARCINOGENICITY: Not expect under normal use.

11.1.7 MUTAGENICITY: Not expect.

11.1.8 TOXICITY FOR REPRODUCTION: Not expect.

## **SECTION 12. ECOLOGICAL INFORMATION**

**12.1 TOXICITY:** No tests data available. See section 2.1.

**12.2 PERSISTENCE AND DEGRADABILITY:** Biological degradability: not readily biodegradable.

**12.3 BIOACCUMULATIVE POTENTIAL:** Not expected to bioaccumulation 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 ASSESMENT:** 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**

Waste material must be disposed of in accordance with national/local legislative requirements.

**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.

13.1.4 **OTHER DISPOSAL RECOMMENDATION:** None.

## **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.

Land transport (ADR/RID):

UN-nr	3082
Proper shipping name	ENVIROMENTALLY HAZARDOUS SUBSTANCE, N.O.S.
Class	9
Classification code	M6
Packing group	III
Hazard label(s)	9
Environmental hazard	Yes
Special provision(s)	None

Marine transport (IMDG/IMO):

UN-nr	3082
Proper shipping name	ENVIROMENTALLY HAZARDOUS SUBSTANCE, N.O.S.
Class	9
Packing group	III
Hazard label(s)	9
Matine pollutante	Yes
Special provision(s)	None

Air transport (ICAO/IATA):

UN-nr	3082
Proper shipping name	ENVIROMENTALLY HAZARDOUS SUBSTANCE, N.O.S.
Class	9
Packing group	III
Hazard label(s)	9
Environmental hazard	Yes
Special provision(s)	None

**SECTION 15. REGULATORY INFORMATION**

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

CLASSIFICATION ACCORDING TO GHS/REGULATION (EC) No 1272/2008/EC: Not danger.

LABEL ELEMENTS ACCORDING TO GHS/REGULATION 1272/2008/EC (CLP):

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

Avoid contact with skin.

EUH210: Safety data sheet available on request.

**REGULATIONS:**

- 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;

- ISO 11014:2009 Safety data sheet for chemical products – content and order of sections;

- European Union directive 67/548/EEC;

- European Union directive 1999/45/EC;

- European commission directive 2009/161/EU list of occupational exposure limit values.

- European waste codes regulations: Commission decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste;

- European agreement concerning the international carriage of dangerous goods by road "ADR 2011" (United Nations, New York and Geneva, 2010);

- INSHT 2009 "Límites de exposición profesional para agentes químicos en España" Occupational exposure limit values of chemical substances in work environment for professionals (Spain),

- ED 984 Occupational exposure limit values of chemical substances in work environment for professionals (France),

- LVS 89:2004 Occupational exposure limit values of chemical substances in work environment (Latvia).

- DSTU 4500-1:2008 Dangerous goods. Terms and definitions. DSTU 4500-3:2008 Dangerous goods.

Marking and placarding. (Ukrainian standards harmonized with international dangerous goods transportation regulations).

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

## **SECTION 16. OTHER INFORMATION**

THE WORDING OF HAZARD SYMBOLS, R-PHRASES AND H-STATEMENTS AS INDICATE IN SECTIONS 2 AND 3:

Xi = Irritant. N = Dangerous for the environment.

R38: Irritating to skin and eyes. R41 Risk of serious damage to eyes. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects. 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: Versions 1/1 and 2/1: sections 2, 3, 4, 11, 12, 15; versions 2/1 and 3/1: sections 2, 3, 8, 11, 12. Versions 3/1 and 3/2: sections 8.2, 9, 11.1, 15. Versions 3/2 and 3/3: section 4.1.

USED ABBREVIATION:

CIS - Commonwealth of Independent States.

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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