

SAFETY DATA SHEET

According to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 830/2015

Product name: **MOGUL ALFA 2T**
Date of issue: 07. 05. 2013
Revision date: 22. 01. 2018 (Version 1.1)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

MOGUL ALFA 2T

Chemical name:

Mixtures

Registration No.:

None

Index No.:

None

1.2 Relevant identified uses of the substance or mixture and uses advised against

Designated uses: Motor oil for lubricating two-stroke engines

Uses of the mixture not recommended: The product may not be used in any way other than those specified in sections 1 and 7.

1.3 Details of the supplier of the safety data sheet

Name: PARAMO, a.s.

Place of business: Přerovská 560, 530 06 Pardubice, Czech Republic

Phone: +420 466 810 111

Fax: +420 466 335 019

E-mail: paramo@paramo.cz

Website: www.paramo.cz

Person(s) responsible for this Safety Data Sheet: Ms. Marie Doleželová, marie.dolezelova@paramo.cz

1.4 Emergency telephone number

Control Room of PARAMO, a. s.: +420 466 303 175

Toxicological Information Centre at Na Bojišti 1, 128 08 Prague 2, phone (Czech Republic only) (24 hours, 7 days a week): +420 224 919 293, 224 915 402, 224 914 575

Transport Information & Accident System (TRINS), phone: +420 476 709 826

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008 (CLP) the product is classified as hazardous.

Skin Irritation: Skin Irrit. 2, H315

Carcinogenicity: Carc. 2, H351

Specific target organ toxicity – repeated exposure: STOT RE 2, H373

Hazardous to the aquatic environment: Aquatic Chronic 3, H412

2.2 Label elements

Pictogram:



Warning description: Warning

Dangerous substances: Contains distillates (petroleum), light, hydro cracked

Standard phrases of hazard:

H315 Causes skin irritation

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Safe handling instructions

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment

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- P280 Wear protective clothing
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362 Take off contaminated clothing and wash before reuse.
P405 Store locked up.
P501 Dispose of contents/container according to local regulations

Other requirements

Packaging intended for sale to consumers must bear a tactile warning for blind.

2.3 Other hazards

The product is not persistent, bioaccumulative and toxic chemical substance or very persistent and very bioaccumulative chemical substance according to the criteria set out in Annex XIII to the EC (PBT, vPvB).
Flammable liquid: Risk of combustion by heating above flash point temperature. Long-term, resp. repeated exposure may cause eye and skin irritation. Prolonged direct contact may lead to skin degreasing and subsequent sensitization. Inhalation of the oil mist may irritate the respiratory tract. It is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is not the substances

3.2 Mixtures

Chemical characteristics

A mixture of the following substances and admixtures

Identification No.	Substance name	Subst. content in the product (%)	Classification according to 1272/2008 (CLP)	Note
EC: 265-078-2 CAS: not available Registration No: 01-2119474208-35	Distillates (petroleum), light hydrocracked	24.8	Asp. Tox. 1, H304 Skin. Irrit. 2, H315 Acute Tox. 4, H332 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 2, H411	

Full texts of H-phrases are quoted in Section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If the first aid treatment is to be administered, release tight clothing and keep the exposed person warm and at rest. If conscious, place the exposed person to the stabilised position and get prompt medical attention. In case of cardiac arrest, apply cardiac massage and call medical assistance immediately. If unconscious but breathing, place the exposed person to the stabilised position and call medical assistance immediately.

The first aid instructions are structured according to separate exposure ways:

Inhalation: In case of inhalation of the aerosol, dispose of the affected person to fresh air.

Skin contact: In case of contact with the skin, wash the affected area thoroughly with water and soap and treat with a suitable cream.

Contact with eyes: Check for contact lenses and remove them, if present. Rinse the eyes thoroughly with ample quantity of clean (lukewarm, if possible) water for at least 15 minutes. If eye irritation persists, seek medical assistance.

Ingestion: Rinse mouth with water, never induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: Check for breathing and pulse rate of the affected person. Do not induce vomiting.

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Ingestion and inhalation: Contraindications: induced vomiting and gastric irrigation. Administration of medicinal charcoal has no effect. The affected person must be monitored at least for the period of 48 to 72 hours. Monitoring for pulmonary oedema symptoms starts six hours after the ingestion/inhalation and it continues at least for the period of 48 to 72 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing means: Heavy, medium and light air-mechanical foam, type B or C fire-extinguishing powders.

Unsuitable extinguishing means: Water jet (for cooling only).

5.2 Special hazards arising from the substance or mixture

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide. Explosive mixtures with air are formed.

5.3 Advice for firefighting

Fire-fighting teams exposed to smoke or vapours must wear respiratory and eye protection. In confined spaces, the teams must use a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Prevent any contamination of clothing/footwear with the product; prevent any contact with skin and eyes. Use suitable protective clothing; if contaminated, change the clothing immediately. Remove any potential source of ignition. Strictly no smoking or naked flames. If possible, larger spills may be covered with foam in order to control the creation of vapours and aerosols. Provide for good ventilation of the affected areas. All persons not taking part in rescue operations must be kept away to a sufficient distance.

6.2 Environmental precautions

Act as quick as possible, do not allow to enter drains, underground water or watercourses and soil by enclosing the affected area (damming, closing of gulleys). Notify the relevant authorities.

6.3 Methods and material for containment and cleaning up

If possible, contain the spillage and pump off or remove the product mechanically or draw it off the water surface. Let absorb any residua or smaller quantities to a suitable sorbent (Vapex, Chezacarb, saw dust, sand) and place it into labelled containers for further disposal in accordance with the relevant waste disposal legislation.

6.4 Reference to other sections

Apart from the instruction set out in this Section, other important information is shown in section 8 - EXPOSURE CONTROLS AND SECTION 13 – DISPOSAL CONSIDERATIONS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

The premises must be equipped according to the requirements of ČSN 75 3415 (Czech Standard). All fire-safety measures must be followed while handling the product. Strictly no smoking or naked flames. In addition, it is necessary to avoid any inhalation of vapours or aerosol, contamination of skin and/or eyes. If handling of heavy containers is necessary, use suitable handling equipment and avoid of any possibility of slipping. Do not eat, drink and smoke at work. Store the product away from foodstuffs, drinks and fodder.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in areas protected from rain, dust, heat and other weather-Weather proofing. Maximum storage temperature is 40 °C. Protect against water.

7.3 Specific end use(s)

Motor oil for the lubrication of high-speed, highly thermally loaded two-stroke engines of motorcycles, engine lubrication chain saws, brush cutters, etc.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The mixture contains substances for which exposure limits are set for the working environment (according to Government Regulation 361/2007).

PEL mineral oil: 5 mg/m³

NPK-P mineral oil: 10 mg/m³

Inhalation: Acute exposure: workers DNEL systematic mg/m³/15 = 4300 min (aerosol)

Systematic public DNEL mg/m³/15 = 2600 min

Prolonged exposure: workers DNEL systematic mg/m³/8 = 68 h (aerosol)

DNEL systematic mg/m³/24 = 20 h (aerosol)

Dermal exposure to long: workers DNEL systematic mg/kg/8 h = 2.9

Systematic public DNEL = 1.3 mg/kg/24 h

8.2 Exposure controls

Observe general safety and hygienic measures; do not eat, drink and smoke at work. After washing the skin with warm water and soap, treat it preventively with a regeneration cream.

Eye/face protection: Use protective goggles or safety eyewear (face shield).

Skin protection: Use protective gloves resistant against oil products and tested according to EN 374; best of all made of nitrile or neoprene rubber.

Respiratory protection: Not necessary, if the vapour concentration in air is less than the concentration limits. If the opposite is the case or aerosols are created, use emergency escape mask with A, AX (brown) filters or any other mask types suitable of protecting against organic gases and vapours.

Thermal hazard: None

Environmental exposure controls: It is necessary to prevent leakage into the environment by all available means.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

State: liquid

Colour: red

Odour: typical

Odour threshold value: not determined

pH: no determination necessary

Pour point: -30 °C

Initial boiling point and boiling range: not determined

Flash point OK: > 100 °C

Vaporisation rate: not determined

Flammability: IV. Class

Upper/lower explosion or flammability limits: not determined

Vapour pressure: < 10 Pa at 20 °C

Vapour density: not determined

Relative density: 880 kg/m³ at 15 °C

Solubility: insoluble in water

Separation factor: n-octanol/water: not determined

Self-ignition temperature: 280 °C

Decomposition temperature: not determined

Viscosity: 7.1 to 8.1 mm²/s/100 °C

Explosive properties: not explosive

Oxidation properties: not oxidising

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Product name: MOGUL ALFA 2T

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9.2 Other information

Combustion point: 115 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity danger exists.

10.2 Chemical stability: Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions are possible.

10.4 Conditions to avoid: Creation of concentrations within the explosion limits, presence of ignition sources and contact with a naked flame.

10.5 Incompatible materials: Strong oxidisers.

10.6 Hazardous decomposition products: Under normal conditions: none; if burning under deficiency of air, carbon monoxide may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

For the ingredient: distillates (petroleum), light, hydrocracked:

Acute toxicity: oral toxicity (rat) LD₅₀ > 2 000 mg/kg (OECD TG 401)

Dermal toxicity (rabbit) LD₅₀ > 5 000 mg/kg (OECD TG 402)

Inhalation toxicity (rabbit) LC₅₀ > 4 100 mg/m³ (OECD TG 403)

Chronic toxicity: chronic inhalation toxicity NOAEC > 1710 mg/m³ (OECD TG 413)

Skin corrosion/irritation: OECD TG 404 test results proved the skin irritation.

Serious eye damage/irritation: OECD TG 405 test results proved no eye irritation.

Respiratory or skin sensitization: the respiratory organ sensitisation data are missing, but no such sensitisation is expected. As regards the sensitisation by skin contact, OECD TG 406 tests were made and no sensitisation proved.

Germ cell mutagenicity:

Genetic toxicity in vitro - mutagenicity - bacteria (modified Ames test, modified by OECD 471): positive

Genetic toxicity in vitro - cytogenicity - mammalian cells: data missing

Genetic toxicity in vitro - mutagenicity - mammalian cells (OECD 476 and OECD 479): results ambiguous

Genetic toxicity in vivo - cytogenicity: Data is missing

Genetic toxicity in vivo - mutagenicity (OECD 475): negative

Carcinogenicity: Carcinogenic activity induced by repeated dermal irritation can be eliminated by minimizing skin contact. The genotoxic mechanism with a higher content of polyaromatic hydrocarbons can not be totally excluded.

Reproduction toxicity:

Screening test for reproductive toxicity / Development (OECD TG 421 and 422): data missing

Inhalation reproductive toxicity NOAEC 1710 mg/m³

Dermal reproductive toxicity NOAEL of 500 mg/kg

Pre-natal developmental toxicity (inhalation): 2110 mg/m³ NOAEC

Pre-natal developmental toxicity (dermal) NOAEL 125 mg/kg

One-generation reproductive toxicity data is missing

STOT – single exposure: not determined

STOT – repeated exposure:

Sub acute dermal toxicity (28 days, rat) (OECD TG 410) NOAEL 0.5 mg/kg

Sub chronic inhalation toxicity (90 days, rat) (OECD TG 413) NOAEC > 1710 mg/m³

Sub chronic dermal toxicity (90 days, rat) NOAEL 30 mg/kg

Aspiration hazards: May be fatal if swallowed and enters airways.

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SECTION 12: ECOLOGICAL INFORMATION

Based on acute toxicity of invertebrates and algae, the product is classified as toxic to the environment, H412.

12.1 Toxicity

For the ingredient: distillates (petroleum), light, hydrocracked:

Acute toxicity for aquatic environment: fish - LL₅₀ (96 hrs) 21 mg/l

Algae EL₅₀ (72 hrs) 22 mg/l

Invertebrates EL₅₀ (48 hrs) 68 mg/l

Chronic toxicity for aquatic environment invertebrates NOELR (21 days) 0.21 mg/l, fish NOEL (14 days) 0.083 g/l

Toxicity for soil microorganisms and for soil macroorganisms: LL₅₀ (72 hrs) 15.41 mg/l

12.2 Persistence and degradability: Not expected - the substance is not soluble in water.

12.3 Bio accumulative potential: Not expected - the substance is biodegradable.

12.4 Mobility in soil: Not expected - the substance is biodegradable.

12.5 Results of PBT and vPvB assessment: The product does not contain substances meeting the criteria for PBT or vPvB in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended

12.6 Other adverse effects: The formation of product layers on water surfaces prevents the access of oxygen.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Substance disposal procedures: Waste, impaired product or unused/surplus product must be handed over to the person authorised for waste disposal according to the provisions of Act No. 185/2001 Coll., on Waste, as amended later, for the purposes of further use or disposal (according to the manufacturer's recommendations).

Waste Code: N 13 02 05, in sorbent: N 15 02 02

Contaminated packaging disposal procedures: The containers with product residua must be placed on the place specified by the municipal authorities or handed over to the person authorised for waste disposal.

Waste legislation: Act No. 185/2001 Coll., on Waste, as amended later and connected implementation rules and regulations.

SECTION 14: TRANSPORT INFORMATION

Nomenclature and labelling according to the European Agreement concerning the International Carriage of Dangerous Goods, Road (ADR)/Rail (RID)

ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good

ADN: Not regulated as a dangerous good

IATA-DGR: Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

14.1 UN Number: none, not regulated as a dangerous good

14.2 UN proper shipping name: none, not regulated as a dangerous good

14.3 Transport hazard class(es): none, not regulated as a dangerous good

14.4 Packing group: none, not regulated as a dangerous good

14.5 Environmental hazard: none

14.6 Special precautions for user:

Petroleum liquids under the Act on the waters, as amended, considered dangerous because of the requirements of the quality of surface and groundwater when transporting large volumes necessary to follow the advice of Standard 75 3418.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- ✓ Act on Clean Air Protection, as amended later, *incl. connected regulations and rules.*
The product does not represent a volatile organic substance pursuant to Act on Clean Air Protection, as amended and relevant regulations of the Ministry of Environment.
- ✓ ČSN 65 0201 Flammable Liquids – manufacturing, storage and handling premises
According to ČSN 65 0201, the product is classified in the IV Flammability Class.
- ✓ ČSN 33 0371 Inexplosive electrical installation – Explosive mixtures – Classification and methods of testing
According to ČSN 33 077, the product is classified in the T3 Thermal Class and IIA Explosive Class.
- ✓ Government Regulation No. 361/2007 Coll., by which the conditions of occupational health and safety are stipulated, as amended later.
- ✓ ČSN 75 3415 Protection of water against oil products. Premises for oil product handling and storage.
- ✓ Act No. 350/2011 Coll., on chemical substances and chemical mixtures, and on amendments of some acts.
- ✓ Regulation (EU) No. 830/2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- ✓ Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures

15.2 Chemical safety assessment

The chemical safety assessment has been made for the ingredient: distillates (petroleum), light, hydrocracked.

SECTION 16: OTHER INFORMATION

Standard safety phrases: H-phrases

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

Safe handling instructions: P-phrase

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment

P280 Wear protective gloves, protective clothing, eye protection, face protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before reuse.

P405 Store locked up.

P501 Dispose of contents/container according to local regulations

Other information important for the safety and health of humans

The product must not be used for any purpose other than those specified in sections 1 and 7 without the manufacturer's / importer's specific consent. The user is responsible for compliance with all relevant health protection regulations.

Training

The user is obliged to get acquainted with the safety precautions relating to the product handling / treatment and complete applicable trainings at the workplace before he/she starts to work with the product.

Information on changes

- ✓ The change has been made on the basis of the Commission Regulation (EU) No. 453/2010 coming into effect.
- ✓ The change (Version 1.0) – Classification CLP
- ✓ The change (Version 1.1) – art .1.2 1.3, 1.4, 2, 3.2, 4, 9.1, 11, 12, 14, 15, 16.

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Statement: *The Safety Data Sheet has been prepared in accordance with REACH Regulation (EC) No 1907/2006. It contains the data that are needed to ensure safety and health at work and environmental protection. These data do not replace the quality specification and cannot be considered as a guarantee of the suitability and usability of this product for a specific application. These data correspond to the current state of knowledge and experience and are in accordance with our valid legal regulations. The customer is responsible for compliance with the applicable regional legislation*