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| Date of issue: 16.2.2016 | Trade name: | Page: 1/8 |
| Reviewed on: | MG ACTIVATOR | Version: 1.0 |

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **MG ACTIVATOR**
Product code: **1 03.0041**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Primer
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:

142-82-5 Heptane

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According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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Labelling of packages where the contents do not exceed 125 ml (section 1.5 of Annex I to CLP)



Contained dangerous substances:
142-82-5 Heptane

Further information on the leaflet.

2.3. Other hazards:

Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

| | | |
|-------------------|---|------------|
| CAS: 142-82-5 | Heptane | 60 - 100 % |
| EINECS: 205-563-8 | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | |

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.

After inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing ensuring one's own safety whilst doing so. If breathing is difficult, provide oxygen or give artificial respiration. In case of unconsciousness place patient stably in side position for transportation. If experiencing respiratory symptoms, call for a doctor.

After skin contact: Take off immediately all contaminated clothing. Wash immediately with plenty of water and soap and rinse thoroughly. Do not use solvents or thinners. Get medical attention if any discomfort continues.

After eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

After swallowing: Rinse mouth immediately and drink large quantities of water. Never give anything by mouth to an unconscious person. Immediately call a doctor.

4.2. Most important symptoms and effects, both acute and delayed:

May cause chemical pneumonia if ingested or vomited.
Vapors may cause drowsiness and dizziness.
Prolonged contact may cause redness, irritation and dry skin.

4.3. Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, water spray or alcohol-resistant foam.

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|--|---|
| <p>Unsuitable extinguishing agents:</p> <p>5.2. Special hazards arising from the substance or mixture:</p> <p>5.3. Advice for firefighters:</p> | <p>Water jet.</p> <p>The vapours are heavier than air and may travel along the ground. The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. In case of fire toxic gases can be released. For example carbon monoxide and carbon dioxide.</p> <p>Wear protective clothing and self-contained breathing apparatus. Containers close to fire should be removed or cooled with water. Do not allow contaminated extinguishing water to reach the sewage system. Dispose contaminated extinguishing water and remains after the fire in accordance with the official regulations.</p> |
| <p>6. Section 6. Accidental release measures:</p> | |
| <p>6.1. Personal precautions, protective equipment and emergency procedures:</p> <p>6.2. Environmental precautions:</p> <p>6.3. Methods and material for containment and cleaning up:</p> <p>6.4. Reference to other sections:</p> | <p>Avoid contact with skin and eyes. Wear protective equipment, see Section 8. Do not inhale vapours. Keep away from ignition sources. Keep unprotected person away. Ensure adequate ventilation.</p> <p>Do not allow to penetrate into soil, waterbodies or drains. Inform respective authorities in case product reaches water course or sewage system.</p> <p>Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Danger of slipping by leaking/spilling product. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools. Dispose contaminated material as waste according to Section 13.</p> <p>See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p> |
| <p>7. Section 7. Handling and storage:</p> | |
| <p>7.1. Precautions for safe handling:</p> <p>Protective measures:</p> <p>Measures to prevent fire:</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels:</p> | <p>Wear protective equipment, see Section 8. Ensure good ventilation/exhaustion at the workplace. Do not inhale vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Vapors may accumulate near the floor and flash back. Protect against electrostatic charges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools.</p> <p>Store in a dry, well-ventilated place. Keep receptacle tightly sealed. Keep opened receptacles upright to prevent leakage. Keep only in the original container.</p> |

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Technical measures and storage conditions:

Do not store together with oxidizing and highly flammable substances.
Keep away from food, drink and animal feedingstuffs.
Storage class: flammable liquids

Further information on storage conditions:

Protect from heat and direct sunlight.
Keep ignition sources away.
Do not smoke.

7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

| CAS | Substance | Long-term (8-hr TWA ref. period) | | Short-term (15 minute ref. period) | | Comments |
|----------|-----------|-------------------------------------|-------------------|---------------------------------------|-------------------|----------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | |
| 142-82-5 | n-Heptane | 500 | 2085 | | | |

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

| CAS | Substance | Eight hours | | Short-term | | Notation |
|----------|-----------|-------------|-------------------|------------|-------------------|----------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | |
| 142-82-5 | n-Heptane | 500 | 2085 | | | |

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.
Ensure eye bath is to hand.

General protective measures:

The usual precautionary measures should be adhered to general rules for handling chemicals.
Take off immediately all contaminated clothing.
Contaminated work clothing should not be allowed out of the workplace.
Do not eat, drink or smoke during the work.
Wash hands before breaks and at the end of work.
Do not inhale vapours/spray.
Avoid contact with skin, eyes and clothing.

Personal protection equipment:

Respiratory protection:

Not necessary if room is well-ventilated.

Eye protection:

Tightly sealed goggles.

Hand protection:

Solvent resistant gloves

Recommend material of gloves: butylrubber

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection:

Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Fluid
Colour: Colorless
Odour: Characteristic
Odour threshold: Not determined
Value pH at 20 °C: Not determined
Melting point/freezing point: Not determined
Initial boiling point/boiling range: 98 °C

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Flash point: -4 °C
 Evaporation rate: Not determined
 Flammability (solid, gas): Not determined
 Explosive properties: Not determined
 Explosive limits:
 - lower: 1.1 Vol %
 - upper: 7 Vol %
 Vapour pressure at 20°C: ~53.5 mBar
 Vapour density at 20 °C: Not determined
 Density at 20°C: 0.74 g/cm³
 Relative density: Not determined
 Solubility in/miscibility: Insoluble in water.
 Soluble in organic solvents.

Partition coefficient (n-octanol/water): Not determined
 Ignition temperature: Not determined
 Decomposition temperature: Not determined
 Self-ignition temperature: 220 °C
 Viscosity: 1 mPa.s
 Oxidising properties: Not determined

9.2. Other information: No further relevant information available.

10. Section 10. Stability and reactivity:

10.1. Reactivity: Reacts with strong oxidizing agents.
 10.2. Chemical stability: Stable under recommended storage conditions.
 10.3. Possibility of hazardous reactions:
 No decomposition if used and stored according to specifications.
 10.4. Conditions to avoid:
 Keep away from heat, sparks, open flames and other ignition sources.
 Protect from direct sunlight.
 Avoid formation of vapours or aerosols.
 10.5. Incompatible materials: Strong oxidizing agent.
 10.6. Hazardous decomposition products:
 In case of fire toxic gases can be released. For example carbon monoxide and carbon dioxide.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:
 Acute toxicity: Based on available data, the classification criteria are not met.

Relevant hazards for substance:
 142-82-5 Heptane

| | | | |
|------------|--------------------------|-------|-------------------------|
| Inhalative | LC ₅₀ / 4 h | Rat | 10300 mg/m ³ |
| | TC _{L0} / 6 min | Human | 4100 mg/m ³ |

Skin corrosion/irritation: Causes skin irritation.
 Serious eye damage/irritation: Based on available data, the classification criteria are not met.
 Respiratory or skin sensitization:
 Based on available data, the classification criteria are not met.
 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 Carcinogenicity: Based on available data, the classification criteria are not met.
 Reproductive toxicity: Based on available data, the classification criteria are not met.
 STOT-single exposure: May cause drowsiness or dizziness.
 STOT-repeated exposure: Based on available data, the classification criteria are not met.
 Aspiration hazard: May be fatal if swallowed and enters airways.
 Other information: No further relevant information available.

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12. Section 12. Ecological information:

- 12.1. Toxicity:
Aquatic toxicity: No further relevant information available.
- 12.2. Persistence and degradability: The product is easily biodegradable.
- 12.3. Bioaccumulative potential: Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
- 12.4. Mobility in soil: The product contains organic solvents which will evaporate easily from all surfaces.
- 12.5. Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

- 13.1. Waste treatment methods:
Product disposal: Transfer to a suitable container and arrange for collection by specialised disposal company.
Must not be disposed together with household garbage.
Do not allow product to reach sewage system.
European Waste Catalogue:
14 06 03* other solvents and solvent mixtures
(*hazardous waste)
- Contaminated packagings: Empty containers should be taken to an approved waste handling site for recycling or disposal.
European Waste Catalogue:
15 01 10* packaging containing residues of or contaminated by hazardous substances
(*hazardous waste)
- Other disposal recommendations: Dispose in accordance with all applicable regulations.
The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

- 14.1. UN number:
ADR, IMDG, IATA UN 1206
- 14.2. UN proper shipping name:
ADR 1206 HEPTANES
IMDG HEPTANES
IATA HEPTANES
- 14.3. Transport hazard class(es):
ADR
- Class 3 F1
Hazard label 3
IMDG
- Class 3
Hazard label 3
IATA
- Class 3



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|---|---------------------------|
| Hazard label | 3 |
| 14.4. Packing group: | |
| ADR, IMDG, IATA | II |
| 14.5. Environmental hazards: | |
| Marine pollutant: | YES |
| 14.6. Special precautions for user: | Warning: flammable liquid |
| EMS Number: | F-E, S-D |
| Danger Code (Kemler): | 33 |
| Tunnel restriction code: | D/E |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: | |
| | Not applicable |
| UN "Model Regulation": | UN 1206 HEPTANES, 3, II |

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

PBT: Persistent, Bioaccumulative, Toxic

TCLO: Lowest concentration in air resulting in toxic effect

TWA: Time weighted average

vPvB: Very Persistent, Very Bioaccumulative

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WEL: Workplace exposure limits

Aquatic Acute 1: Hazardous to the aquatic environment, category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, category 1

Asp. Tox. 1: Aspiration hazard, category 1

Flam. Liq. 2: Flammable liquid, category 2

Skin Irrit. 2: Skin irritation, category 2

STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**