

Date of issue: 13/12/2016	Trade name:	Page: 1/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

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

- 1.1. Product identifier:
Trade name: **CYANO ACTIVATOR**
Product code: **1 35138**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Activator.
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]:
Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
Skin Irrit. 2 H304 May be fatal if swallowed and enters airways.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H315 Causes skin irritation.
Aquatic Chronic 2 H411 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:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H411 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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 2/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

P332+P313 If skin irritation occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:
64742-49-0 Naphtha (petroleum), hydrotreated light;
142-82-5 Heptane

- 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 with propellants

Hazardous ingredients:

CAS: 68476-85-7 EINECS: 270-704-2	Petroleum gases, liquefied (contains < 0.1 % 1,3-Butadien) Press. Gas, H280; Flam Gas 1, H220	30 - 50 %
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light (contains < 0.1 % benzene) Asp. Tox. 1, H304; Flam. Liq. 1, H224; Skin Irrit. 2, H315; Aquatic Chronic 1, H410	30 - 50 %
CAS: 142-82-5 EINECS: 205-563-8 Reg.nr.: 01-2119475515-33	Heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 1, H411	10 - 30 %
CAS: 99-97-8 EINECS: 202-805-4	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 3, H412	< 1 %
CAS: 128-37-0 EINECS: 204-881-4	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1 %

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.
Consult a doctor.
- After skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.
Wash immediately with plenty of water and soap and rinse thoroughly.
Consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor.
- After swallowing: Rinse mouth with plenty of water.
Do not induce vomiting.
If conscious, give half a litre of water to drink immediately.
Consult a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed:
- After inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
- After skin contact: There may be irritation and redness at the site of contact.
- After eye contact: There may be irritation and redness. The eyes may water profusely.
- After swallowing: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 3/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

4.3.	Delayed/immediate effects: Immediate effects can be expected after short-term exposure. Indication of any immediate medical attention and special treatment needed: No further relevant information available.
5.	Section 5. Fire fighting measures:
5.1.	Extinguishing media: Suitable extinguishing agents: Use fire fighting measures that suit the environment. Unsuitable extinguishing agents: No further relevant information available.
5.2.	Special hazards arising from the substance or mixture: In case of fire it may generate hazardous gases.
5.3.	Advice for firefighters: Wear protective clothing and self-contained breathing apparatus. Use water to keep fire exposed containers cool.
6.	Section 6. Accidental release measures:
6.1.	Personal precautions, protective equipment and emergency procedures: Wear protective equipment, see Section 8. Keep unprotected persons away. Turn leaking containers leak-side up to prevent the escape of liquid.
6.2.	Environmental precautions: Do not allow to enter sewage system, surface or ground water. Contain the spillage using bunding.
6.3.	Methods and material for containment and cleaning up: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose contaminated material as waste according to Section 13.
6.4.	Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
7.	Section 7. Handling and storage:
7.1.	Precautions for safe handling: Protective measures: Wear protective equipment, see Section 8. Provide adequate ventilation. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Avoid contact with skin and eyes. Measures to prevent fire: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
7.2.	Conditions for safe storage, including any incompatibilities: Requirements for storage rooms and vessels: Keep container tightly closed. Must only be kept in original packaging. The floor of the storage room must be impermeable to prevent the escape of liquids. Technical measures and storage conditions: Store in a cool, well ventilated area. Do not store above 30°C. Further information on storage conditions: Keep away from heat and direct sunlight.
7.3.	Specific end use(s): Adhesives, sealants.

Date of issue: 13/12/2016	Trade name:	Page: 4/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

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	
68476-85-7	Liquefied petroleum gas	1000	1750	1250	2180	Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)
142-82-5	n-Heptane	500	2085	-	-	-
128-37-0	2,6-di-tert-butyl-p-cresol	-	10	-	-	-

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.
Avoid skin and eye contact.
Avoid breathing vapours.

Personal protection equipment:

Respiratory protection: Respiratory protection usually not required with adequate ventilation.
Self-contained breathing apparatus must be available in case of emergency.

Eye protection: Safety glasses.

Hand protection: Impermeable gloves.

Skin protection: Impermeable protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Aerosol.
Colour: Transparent.
Odour: Characteristic.
Odour threshold: Not determined.
Value pH at 20 °C: Not determined.
Melting point/freezing point: Not determined.
Initial boiling point/boiling range: Not determined.
Flash point: < 21 °C
Evaporation rate: Not determined.
Flammability (solid, gas): Not determined.
Explosive properties: Not determined.
Explosive limits:
- lower: Not determined.
- upper: Not determined.
Vapour pressure at 20°C: Not determined.
Vapour density at 20 °C: Not determined.
Density at 20°C: Not determined.
Relative density: Not determined.
Solubility in/miscibility: Water: Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.
Ignition temperature: Not determined.
Decomposition temperature: Not determined.
Self-ignition temperature: Not determined.
Viscosity: Not determined.
Oxidising properties: Not determined.

Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 5/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

9.2. Other information: No further relevant information available.

10. Section 10. Stability and reactivity:

- 10.1. Reactivity: Stable under recommended transport or storage conditions.
 10.2. Chemical stability: Stable under normal conditions.
 10.3. Possibility of hazardous reactions:
 Hazardous reactions will not occur under normal transport or storage conditions.
 Decomposition may occur on exposure to conditions or materials listed below.
 10.4. Conditions to avoid: Heat. Direct sunlight.
 10.5. Incompatible materials: Strong oxidising agents. Strong acids.
 10.6. Hazardous decomposition products:
 In combustion emits toxic fumes.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

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

142-82-5 Heptane

Oral	LD50	rat	> 5000 mg/kg
Dermal	LD50	rabbit	> 2000 mg/kg
Vapours	LC50/4h	rat	> 20 mg/l

99-97-8 N,N-dimethyl-p-toluidine

Oral	LD50	rat	550 mg/kg
Dermal	LD50	rabbit	> 2000 mg/kg
Vapours	LC50/4h	rat	1400 mg/m ³

128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	rat	> 2930 mg/kg
Dermal	LD50	rabbit	> 2000 mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	Inhalation, skin	Hazardous: calculated
Irritation	Skin	Hazardous: calculated
Repeated dose toxicity	-	Hazardous: calculated

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:

After inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

After skin contact: There may be irritation and redness at the site of contact.

After eye contact: There may be irritation and redness. The eyes may water profusely.

After swallowing: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity: No further relevant information available.

142-82-5 Heptane

Invertebrates:	EC50/48h	Daphnia magna	3 mg/l
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Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 6/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

99-97-8 N,N-dimethyl-p-toluidine

Fish:	LC50/96h	32.036 mg/l
Invertebrates:	LC50/48h Daphnia magna	15.259 mg/l
Algae:	EC50/96h Selenastrum capricornutum	15.481 mg/l

- 12.2. Persistence and degradability: Not biodegradable.
- 12.3. Bioaccumulative potential: Bioaccumulation potential.
- 12.4. Mobility in soil: Readily absorbed into soil.
- 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: Toxic to aquatic organisms. Toxic to soil organisms.

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:
16 03 05* organic wastes containing hazardous substances (*hazardous waste)
- Packagings disposal: Disposal must be made according to official regulations.
European Waste Catalogue:
15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*hazardous waste)
- Other disposal recommendations: Disposal must be made according to official 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 1950
- 14.2. UN proper shipping name:
ADR 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
IATA AEROSOLS, flammable
- 14.3. Transport hazard class(es):
ADR
- Class 2 5F Gases
- Hazard label 2.1
- IMDG
- Class 2.1
- Hazard label 2.1
- IATA
- Class 2.1
- Hazard label 2.1

Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 7/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

- 14.4. Packing group:
 ADR, IMDG, IATA Void.
- 14.5. Environmental hazards: The product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha
- Marine pollutant: Yes
- Special marking (ADR): Symbol (fish and tree)
- 14.6. Special precautions for user: Warning: gases
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
 Not applicable
- ADR
- Tunnel restriction code: D
- UN "Model Regulation": UN 1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

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):

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Safety Data Sheet

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

Date of issue: 13/12/2016	Trade name:	Page: 8/8
Reviewed on:	CYANO ACTIVATOR	Version: 1.0

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)

EC50: Median effective concentration to 50% of a population

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

LD50: Median dose lethal to 50 % of a test population

PBT: Persistent, Bioaccumulative, Toxic

Reg.nr.: Registration number

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Acute Tox. 3: Acute toxicity, category 3

Aerosol 1: Aerosol, category 1

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

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

Aquatic Chronic 2: Hazardous to the aquatic environment, category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, category 3

Asp. Tox. 1: Aspiration hazard, category 1

Flam. Gas 1: Flammable gas, category 1

Flam. Liq. 1: Flammable liquid, category 1

Press. Gas: Gases under pressure

Skin Irrit. 2: Skin irritation, category 2

STOT RE 2: Specific target organ toxicity — repeated exposure, 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.**