

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier MEGATUK HTG230
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Plastic lubricant, category PC-TEC-11

The use descriptors

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	NOVATO
Address	Uralská 770/6, Praha, 160 00 Czech Republic
Identification number (CRN)	62910370
VAT Reg No	CZ62910370
Phone	+420 233 339 688
E-mail	petr.johanides@novato.cz
Web address	www.novato.cz

Competent person responsible for the safety data sheet

Name	ABITEC
E-mail	info@abitec.cz

1.4. Emergency telephone number
European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Eye Irrit. 2, H319
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Imperfect thermal decomposition at high temperatures may release dangerous gases. Avoid inhaling them.

Most serious adverse effects on human health and the environment

TIIt irritates the eyes (watering, burning, redness, even conjunctivitis). Contains a sensitizing substance in an amount below the limit for classification, may cause an allergic reaction. Sensitive and allergic persons and asthmatics should avoid contact with the mixture. Abdominal pain, nausea, vomiting and diarrhea may occur if swallowed. Ensure against confusion with drinks. The mixture is classified as harmful to the environment. Follow the instructions for use to avoid risks to people and the environment. Prevent product and water from escaping into soil, ground or surface water or sewers after extinguishing. The full wording of the classification and H phrases is given in Sect. 16 of this safety data sheet.

2.2. Label elements

Hazard pictogram



Signal word

Warning

SAFETY DATA SHEET

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

Hazard statements

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash face, hands and exposed parts of the body thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to according to applicable regulations.

Supplemental information

EUH208 Contains N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine. May produce an allergic reaction.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors , nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Lubricant based on synthetic oil and polyurea.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68649-42-3 EC: 272-028-3	phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	1-<5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 10 % Eye Dam. 1, H318: C ≥ 3 % Aquatic Chronic 2, H411: C ≥ 25 %	
CAS: 80584-90-3 EC: 279-503-4	N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 10 % Skin Sens. 1, H317: C ≥ 1 % Aquatic Acute 1, H400; Aquatic Chronic 2, H411: C ≥ 25 %	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In all cases of doubt, or when you feel unwell, seek medical advice and show this safety data sheet to the physician. In case of life-threatening conditions, perform resuscitation. Place unconscious person in stable position and do not give anything by mouth. Avoid cooling. Do not induce vomiting. Avoid inhalation of vomit in case of spontaneous vomiting.

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

If inhaled

There is no risk of inhalation during normal use. Interrupt exposure, breathe fresh air. Seek medical attention if respiratory tract irritation occurs.

If on skin

Wipe off the mixture, wash with lukewarm water, soap and treat with regenerating cream. If clothing is contaminated, remove clothing.

If in eyes

If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye to the outside with plenty of clean, lukewarm water, especially under the eyelids. Rinse for 10 - 15 minutes, seek medical attention.

If swallowed

Leave the affected person alone. Do not induce vomiting, rinse mouth with water (if conscious), drink a glass of water. Seek medical attention and present this safety data sheet. Danger of vomiting!

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

If inhaled

not available

If on skin

Repeated or prolonged contact with skin may cause skin dryness or cracking.

If in eyes

In case of accidental contact with the eyes, it may, in exceptional cases, cause slight eye irritation (tearing, burning, itching).

If swallowed

Ingestion may cause gastrointestinal irritation, abdominal pain and nausea.

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

Immediate medical attention is not required during normal use of the mixture.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is not flammable, adapt extinguishing media to the surrounding fire (foam, CO₂, powder).

Unsuitable extinguishing media

Full stream of water, water, water spray

5.2. Special hazards arising from the substance or mixture

Thermal decomposition at high temperatures or in case of fire may produce hazardous decomposition products (CO_x, unidentifiable organic substances, etc.). Do not breathe thermal decomposition products.

5.3. Advice for firefighters

Adapt protective equipment to the nature of the fire (self-contained breathing apparatus, emergency suit). Move mixture tanks out of reach of fire if you can do so without risk. Combustion residues and water after intervention should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, escape area. Avoid contact with skin and eyes - use personal protective equipment. The location of the leak can be slippery. Pay attention to personal safety.

6.2. Environmental precautions

Provide a spill area, prevent leakage into drains, soil, surface and ground water. In case of a large liquid leak, monitor the NPK concentrations resp. TLV and inform the relevant public authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Collect the paste mechanically. In the event of a minor leak, wipe the mixture with a cloth, place in a closeable waste container, label and dispose of in accordance with local waste disposal regulations.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Follow the recommendations in the operating instructions. Ensure direct contact of the mixture with eyes and skin, use personal protective equipment according to dept. 8. Secure against confusion with food. The location of the leak can be slippery. Pay attention to personal safety.

Observe the applicable health and safety legislation. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soapy water before breaks, meals and after work. Store in the original container.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed in the original packaging in a dry, well-ventilated place protected from rain and weather. Protect from direct sunlight. Store separately from oxidizing agents. Store away from food, drink and feed. Floors should be impermeable, resistant to liquids and washable. Shafts and channels should be protected against product leakage.

Content	Packaging type	Material of package
400 ml	tube	HDPE

Storage temperature min 0 °C, max 40 °C

7.3. Specific end use(s)

It is not.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Ensure adequate ventilation, or work space extraction. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with eyes and skin. Observe hygienic measures when working with chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Not necessary unless there is a risk of eye contact.

Skin protection

Protective work clothing. Wash affected skin, remove contaminated clothing, wash before further use. Protective gloves (material e.g. nitrile butadiene, 0.12 mm; penetration time 4 h.). When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test at a specific workplace before first use. Replace damaged gloves. Unsuitable material: natural rubber, natural latex, polychloroprene.

Respiratory protection

In case of insufficient ventilation and when the limits are exceeded, use a half-mask with a filter against organic vapors.

Thermal hazard

Not determined.

Environmental exposure controls

Observe the usual environmental precautions.

More information

The mixture does not contain components with established national exposure limits according to Annex 2, Government Regulation 361/2007 Coll., as amended, or according to the Union for the Working Environment.

Ensure compliance with Government Regulation 361/2007 Coll., which establishes conditions for health protection at work, as amended, and fulfill the obligations contained therein.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	pink (nanoform)
Odour	characteristic
Melting point/freezing point	>280 °C

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

Boiling point or initial boiling point and boiling range	data not available
Flammability	The mixture is flammable but not easily ignited.
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.95 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

VOC content: < 3%
The mixture does not exhibit explosive properties.
The mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

The mixture does not show dangerous reactions if the instructions for use are followed.

10.4. Conditions to avoid

Too very high temperatures, sources of ignition, open fire, sparks, frost.

10.5. Incompatible materials

Strong acids, oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Incomplete combustion or thermal decomposition produces toxic combustion products: CO_x, unidentifiable organic compounds, etc.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No. 1272/2008, as amended.

Acute toxicity

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

The mixture is classified as eye irritant, category 2. Causes serious eye irritation.

Respiratory or skin sensitisation

The mixture contains a sensitizing component in an amount below the limit for the classification of the mixture. May cause an allergic reaction.

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

More information

The toxicological effects of the mixture itself have not been assessed. Due to the properties of the mixture, it is an acutely practically non-toxic mixture.

11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. It irritates the eyes (watering, burning, redness, even conjunctivitis). Contains a sensitizing substance in an amount below the limit for classification, may cause an allergic reaction. Sensitive and allergic persons and asthmatics should avoid contact with the mixture. Abdominal pain, nausea, vomiting and diarrhea may occur if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

The mixture is classified as harmful to aquatic organisms, category 3.

More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

12.2. Persistence and degradability

The mixture is difficult to biodegrade. Main component of the mixture: 5.9%/28 days.

12.3. Bioaccumulative potential

Not determined for the mixture. LogKow (principal component): 14.9 (at 25 °C)

12.4. Mobility in soil

It's not mobile.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

12.7. Other adverse effects

The mixture is classified as harmful to the aquatic environment, with long-term effects. Avoid release to soil, ground or surface water or sewers. Observe the usual environmental protection measures.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Hand over to an authorized person for disposal. Do not dispose of with household waste. Dispose of contaminated packaging as hazardous waste.

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

Waste management legislation

Waste Act No. 185/2001 Coll. as amended. Act No. 477/2001 Coll., On packaging, as amended.

Waste type code

12 01 12* spent waxes and fats

Packaging waste type code

15 01 02 plastic packaging

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

SAFETY DATA SHEET

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

- P264 Wash face, hands and exposed parts of the body thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container to according to applicable regulations.

A list of additional standard phrases used in the safety data sheet

- EUH208 Contains N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine. May produce an allergic reaction.

Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Key to abbreviations and acronyms used in the safety data sheet

- ADR European agreement concerning the international carriage of dangerous goods by road
 - BCF Bioconcentration Factor
 - CAS Chemical Abstracts Service
 - CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
 - EC Identification code for each substance listed in EINECS
 - EINECS European Inventory of Existing Commercial Chemical Substances
 - EmS Emergency plan
 - EU European Union
 - EuPCS European Product Categorisation System
 - IATA International Air Transport Association
 - IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
 - ICAO International Civil Aviation Organization
 - IMDG International Maritime Dangerous Goods
 - IMO International Maritime Organization
 - INCI International Nomenclature of Cosmetic Ingredients
 - ISO International Organization for Standardization
 - IUPAC International Union of Pure and Applied Chemistry
 - log Kow Octanol-water partition coefficient
 - OEL Occupational Exposure Limits
 - PBT Persistent, Bioaccumulative and Toxic
 - ppm Parts per million
 - REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
 - RID Agreement on the transport of dangerous goods by rail
 - UN Four-figure identification number of the substance or article taken from the UN Model Regulations
 - UVCB Substances of unknown or variable composition, complex reaction products or biological materials
 - VOC Volatile organic compounds
 - vPvB Very Persistent and very Bioaccumulative
- Aquatic Acute Hazardous to the aquatic environment



SAFETY DATA SHEET

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MEGATUK HTG230

Creation date	22nd October 2003	Version	15
Revision date	14th June 2022		

Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Information about data sources used to compile the Safety Data Sheet

Manufacturer data and toxicological databases.

The changes (which information has been added, deleted or modified)

The mixture is classified in accordance with the supplier of the mixture. Adjustment of the composition of the mixture by the supplier, adjustment of the classification of the mixture according to the new harmonized classification of components, adaptation of the BL format to the updated Annex II of the REACH Regulation.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.