

SAFETY DATA SHEET

according to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 2020/878

Product name: KATEBIT PS

Date of issue/revision: 2022-03-01

Issue: 4.0

Date of previous issue: 2017-04-01

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product name:

KATEBIT PS

Chemical name: Mixture.

Registration No.: None.

Index No.: None.

UFI: None.

Internal identifier: V076259

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

Designated uses: Asphalt emulsion for cold coating of aggregates and recycled material.

Uses 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

E-mail: paramo@paramo.cz

Website: www.paramo.cz

Person(s) responsible for this SDS: bl@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

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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

Hazardous to the aquatic environment, Category 3: Aquatic Chronic 3, H412

2.2 Label elements

Pictogram: None.

Warning description: No signal word

Dangerous substances: None.

Standard phrases of hazard:

H412 Harmful to aquatic life with long lasting effects.

Safe handling instructions:

P102 Keep out of reach of children

P273 Avoid release to the environment

P501 Dispose of contents and container according to local regulations

Additional information on the label: None.

Other requirements: None.

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2.3 Other hazards

The product does not contain persistent, bioaccumulative and toxic substances or very persistent and very bioaccumulative substances according to the criteria in Annex XIII. EC Regulation (PBT, vPvB) at a concentration of 0.1% b.w. or higher.

The product does not contain substances that have been included in a list drawn up in accordance with Article 59 (1) that have endocrine disrupting properties, nor substances that have been identified as endocrine disruptors in accordance with the criteria set out in Commission Regulation delegated powers (EU) 2017/2100 or in Commission Regulation (EU) 2018/605 in a concentration of 0.1% b.w. or more.

It is not a flammable substance. Care must be taken to protect the skin and eyes. Direct contact with skin and eyes may cause irritation.

Causes pollution of surface and groundwater and soil in the event of an accidental leak. The use of asphalt emulsion for surface treatment coming into direct contact with food, feed and drinking water is not approved. The possibility of leaching the emulsifiers used after precipitation of the emulsion is negligible. Accidental release into the environment may cause pollution of surface and groundwater and soil contamination. It is divided into asphalt and water by contact with aggregate or water evaporation. The emulsifier used is practically insoluble in water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

It is not a substance.

3.2 Mixtures

List of substances contained in the product meeting the criteria of Annex II to Regulation (EC) No 1907/2006 to include in this section.

Identification num.	Substance name	Content in % weigh	Classification according to 1272/2008/EC	Note
EC: 629-716-7 CAS: 1211950-04-7 Registration Number: 01-2119487003-44	N,N,N',N',N''-Pentamethyl-N-C16-18 (even numbered) C18 unsat.-alkyl-1.3 propanediammonium chloride	< 0.5	H302, Acute Tox. 4 H314, Skin Corr. 1B H318, Eye Damage 1 H400, Aquatic Acute 1, M=10 H410, Aquatic Chronic 1, M=1 LD ₅₀ =1156 mg/kg	
EC: 231-595-7 CAS: 7647-01-0 Registration Number: 01-2119484862-27	Hydrochloric acid 31%	0.1	H290, Met. Corr. 1 H314, Skin Corr. 1B, c≥ 25 H315, Skin Irrit. 2, c≥ 10 H318, Eye Damage 1, c≥ 25 H319, Eye Irrit. 2, c≥ 10 H335, STOT SE 3, c≥ 10	* **

* Substance for which national legislative limits are set for the working environment.

** Substance for which Union occupational exposure limits are set.

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 un-conscious but breathing, place the exposed person to the stabilised position and call medical assistance immediately.

Description of first aid measures:

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

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Product name: KATEBIT PS

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Skin contact: Areas hurt with hot asphalt must be cooled, ideally with water. The cooled asphalt must not be removed from the skin in order not to disturb created blisters. Remove the asphalt only in the event that the eyes or ears have been affected. Seek medical aid.

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.

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, CO₂.

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.

5.3 Advice for firefighters

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

Measures for workers other than emergency responders

Avoid contamination of clothing and footwear with the product and contact with skin and eyes. Wear suitable protective clothing and replace contaminated clothing immediately. Ensure ventilation of the affected area.

Measures for emergency responders

Depending on the degree of leakage, use high rubber boots or rubber suit. Be aware of the high risk of slipping.

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.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

When pumping, avoid the action of large frictional forces on the emulsion, pumping with gear pumps is possible. It must not be mixed with emulsions of anionic character and alkaline solutions. The emulsion disintegrates. The emulsion must be thoroughly mixed before use. If there is a risk of frost or rain, the emulsion cannot be used.

7.2 Conditions for safe storage, including any incompatibilities

Skladuje se při teplotách 5 °C až 30 °C, ve stojatých nádržích, s možností míchání cirkulací odstředivým čerpadlem nebo mechanicky, s možností ohřevu emulze jednorázově do 60 °C vyhřívacími hady s vodou do 90 °C. Nádrže po anionaktivních emulzích musí být důkladně vypláchnuty.

7.3 Specific end use(s)

Cold coating of aggregates and recycled material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The product does not contain substances for which there are occupational exposure limits.

Concentration estimation values at which no adverse effects of DNELs and PNECs occur:

Hydrochloric acid 31%	DNEL workers: inhalation/long-term/local effect 8 mg/m ³ inhalation/short-term/local effect 15 mg/m ³ PNEC: freshwater 0.036 mg/L marine water 0.036 mg/L Sewage treatment plant (STP) 0.036 mg/L
N,N,N',N',N''-Pentamethyl-N-C16-18 (even numbered) C18 unsat.-alkyl-1.3 propanediammonium chloride	DNEL workers: inhalation/long-term/systemic effect 1.76 mg/m ³ dermal/long-term/systemic effect 0.25 mg/kg bw/day PNEC: freshwater 0.014 mg/L marine water 0.0014 mg/L freshwater sediment 55.9 mg/kg sediment dw marine water sediment 5.6 mg/kg sediment dw Sewage treatment plant (STP) 3.2 mg/L soil 9.45 mg/kg soil d.w. predators 2 mg/kg diet

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 oil resistant protective gloves tested according to EN 374, preferably made of nitrile or neoprene rubber. Choose the permeation class depending on the activities performed.

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

Physical state:

Liquid (colloidal system)

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according to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 2020/878

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Date of previous issue: 2017-04-01

Colour:	brown to black
Odour:	odorless
Odour threshold value:	not determined
Melting point (~ Pour point):	approx. 0 °C
Boiling point or initial boiling point:	approx. 100 °C
Flammability:	non-flammable liquid
Lower and upper explosion limit:	does not form explosive mixture under storage conditions
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	there is no spontaneous decomposition
pH:	2,5 to 5 at 20 °C
Kinematic viscosity:	discharge time C2/40 °C: 15 to 70 s
Solubility:	miscible with water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Relative vapour density:	not determined
Density:	1000 kg/m ³ at 15 °C

9.2 Other information

No further data available.

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

Heating to high temperature, presence of ignition sources, contact with open 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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:** Based on available data, the criteria for product classification are not met.

Estimation of acute toxicity of the mixture:

ATE oral > 2000 mg/kg bw

ATE dermal > 2000 mg/kg bw

Skin corrosion/irritation: Based on available data, the criteria for product classification are not met.**Serious eye damage/irritation:** Based on available data, the criteria for product classification are not met.**Respiratory or skin sensitization:** Based on available data, the criteria for product classification are not met.

SAFETY DATA SHEET

according to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 2020/878

Product name: KATEBIT PS

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Issue: 4.0

Date of previous issue: 2017-04-01

Germ cell mutagenicity: Based on available data, the criteria for product classification are not met.

Carcinogenicity: Based on available data, the criteria for product classification are not met.

Reproduction toxicity: Based on available data, the criteria for product classification are not met.

STOT – single exposure: Based on available data, the criteria for product classification are not met.

STOT – repeated exposure: Based on available data, the criteria for product classification are not met.

Aspiration hazard: Based on available data, the criteria for product classification are not met.

11.2 Information on other hazards

The product does not contain substances that have been identified as endocrine disruptor in relation to human health.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Based on the available acute and chronic toxicity data for the individual components, the product was classified as hazardous to the aquatic environment with the phrase H412.

Quantitative data are not available.

12.2 Persistence and degradability

It is not readily biodegradable.

12.3 Bioaccumulative potential

Not determined. Based on the log P o/w value of similar products, a very low can be expected.

12.4 Mobility in soil

Not expected.

12.5 Results of PBT and vPvB assessment

The product does not contain persistent, bioaccumulative and toxic substances or very persistent and very bioaccumulative substances according to the criteria in Annex XIII. EC Regulation (PBT, vPvB) at a concentration of 0.1% b.w. or higher.

12.6 Endocrine disrupting properties

The product does not contain substances that have been included in a list drawn up in accordance with Article 59 (1) that have endocrine disrupting properties, nor substances that have been identified as endocrine disruptors in accordance with the criteria set out in Commission Regulation delegated powers (EU) 2017/2100 or in Commission Regulation (EU) 2018/605 in a concentration of 0.1% b.w. or more.

12.7 Other adverse effects

Not expected.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Substance disposal procedures: Do not dispose of together with municipal waste. Do not dispose of waste through sewers. Waste, impaired product or unused/surplus product must be handed over to the person authorised for waste disposal according to the local law.

Waste Code: O 05 01 17, 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.

Code of contaminated packing: N 15 01 10

Waste legislation:

Directive 2008/98/EC on waste and repealing certain Directives

SAFETY DATA SHEET

according to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 2020/878

Product name: KATEBIT PS

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Issue: 4.0

Date of previous issue: 2017-04-01

Directive 94/62/EC on packaging and packaging waste

SECTION 14: TRANSPORT INFORMATION

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

It is not a dangerous item from the point of view of ADR, RID, ADN, IMDG and ICAO TI regulations.

14.1 UN number or ID number

Does not apply.

14.2 UN proper shipping name

Does not apply.

14.3 Transport hazard class(es)

Does not apply.

14.4 Packing group

Does not apply.

14.5 Environmental hazards

None.

14.6 Special precautions for user

None.

14.7 Maritime transport in bulk according to IMO instruments

It is not intended for bulk transport according to these regulations.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- ✓ Regulation (EU) No. 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REAC)
- ✓ Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP)
- ✓ Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

15.2 Chemical safety assessment

The chemical safety assessment for the mixture has not been made.

SECTION 16: OTHER INFORMATION**Standard safety phrases (H-phrases) used in the safety data sheet:**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Additional safety phrases (EUH-phrases) used in the safety data sheet: None.

Safe handling instructions (P-phrases) used in the safety data sheet:

P102 Keep out of reach of children

P273 Avoid release to the environment

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P501 Dispose of contents and 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.

Abbreviations used in the safety data sheet

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration toxicity
ATE	Estimation of acute toxicity
Carc.	Carcinogenicity
CLP	Regulation (EC) No 1272/2008 on Classification, Labeling and Packaging of substances and mixtures
DNEL	Derived no-effect level
EC ₅₀	Concentration of the substance at which 50% of the population is affected
Eye Dam./Irrit.	Eye Damage / Irritation
Flam. Liq.	Flammable Liquid
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC ₅₀	Median lethal dose
LD ₅₀	Median lethal dose
Log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
Mutag.	Mutagenicity
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Concentration
OECD TG	OECD Guidelines for the Testing of Chemicals
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
Repr.	Reproductive toxicity
RID	European treaty on the international transport of hazardous substances by rail
Skin Corr./Irrit./Sens.	Skin Corrosion/ Irritation/ Sensitisation
STEL	Short-term exposure limits
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
TWA	Time-weighted average exposure limit
UVCB	Compounds of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Highly persistent and highly bioaccumulative

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 about changes from the previous version

- ✓ Administrative change based on Commission Regulation (EU) 2020/878.

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 re-gional legislation.