

# Safety Data Sheet

## Brake cleaner

Replaces date: 12/10/2020

Revision date: 13/03/2023

Version: 2.0.0

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

#### 1.1. Product identifier

**Trade name:** Brake cleaner

**Unique Formula Identifier (UFI):** N5QP-AMNQ-520K-UJV0

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

**Recommended uses:** Cleaning agent

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

**Company:** Kramp UK Ltd  
**Address:** Unit 5  
Lancaster Way  
**Zip code:** SG18 8YL  
**City:** Biggleswade  
**Country:** UNITED KINGDOM  
**E-mail:** sales.uk@kramp.com  
**Phone:** +44(0)1767 602 600

#### 1.4. Emergency Telephone Number

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**CLP-classification:** Aerosol 1;H222  
Aerosol 1;H229  
Asp. Tox. 1;H304  
Skin Irrit. 2;H315  
STOT SE 3;H336  
Aquatic Chronic 2;H411

**Most serious harmful effects:** Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

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### 2.2. Label elements

#### Pictograms



Signal word:

Danger

#### Contains

Substance: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane;

#### Hazard Statements

The specific provisions on labelling laid down in section 1.3 of Annex I of the CLP Regulation apply to this product.

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P332+313	If skin irritation occurs: Get medical advice/attention.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501	Dispose of contents/container in accordance with local regulation.

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.  
Endocrine disrupting properties: None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	92128-66-0 921-024-6 01-2119475514-35	50 - 100 %	3	Flam. Liq. 2;H225 Asp. Tox. 1;H304 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411
Carbon dioxide	124-38-9 204-696-9	3 -< 5 %	12	

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Please see section 16 for the full text of H- / EUH-phrases.

3 = H304 is not applicable due to use as aerosols.

12 = The substance is included in the EU list of limit values for occupational exposure

**Ingredient comments:** Pursuant to Regulation (EC) No. 648/2004 on detergents: 30% and more: aliphatic hydrocarbons

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation:</b>	Seek fresh air. Seek medical advice in case of persistent discomfort.
<b>Ingestion:</b>	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
<b>Skin contact:</b>	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
<b>Eye contact:</b>	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
<b>Burns:</b>	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
<b>General:</b>	When obtaining medical advice, show the safety data sheet or label.

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

Irritating to skin - may cause reddening. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Inhalation of spray mist may cause chemical pneumonia. Inhalation of spray mist may cause irritation to the upper airways.

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

Treat symptoms. No special immediate treatment required.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media:</b>	Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.
<b>Unsuitable extinguishing media:</b>	Do not use water stream, as it may spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: Aldehydes/ Carbon monoxide and carbon dioxide. Heating will cause a rise in pressure in packaging with a risk of bursting. CAUTION! Aerosol containers may explode.

#### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Send contaminated extinguishing water for destruction.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Stay upwind/keep distance from source. Keep unnecessary personnel away. Wear safety goggles if there is a risk of eye splash. Wear gloves. Provide adequate ventilation. Smoking and naked flames prohibited.

**For emergency responders:** In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

#### 6.2. Environmental precautions

Avoid unnecessary release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Wipe up drops and splashes with a cloth.

#### 6.4. Reference to other sections

See section 8 for type of protective equipment.

See section 13 for instructions on disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited. Avoid heating and contact with ignition sources.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store in a dry, cool, well-ventilated area. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not store with the following: Oxidisers. Store cold, but frost-free.

#### 7.3. Specific end use(s)

None.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	fiber/cm3	Remarks	Comments
Carbon dioxide	8h	5000	9150			
Carbon dioxide	15m	15000	27400			
Cycloalkanes (≥C7)	8h		800			
Cycloalkanes (C5 – C6)	8h		1800			

**Measuring methods:** Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

**Legal basis:** EH40/2005 Workplace exposure limits. Last amended January 2020.

#### DNEL - workers

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane, cas-no 92128-66-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	2035 mg/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	773 mg/kg bw/day				

### DNEL - general population

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane, cas-no 92128-66-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	608 mg/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	699 mg/kg bw/day				
Oral DNEL (long-term exposure - systemic effects)	699 mg/kg bw/day				

### 8.2. Exposure controls

#### Appropriate engineering controls:

Wear the personal protective equipment specified below.

#### Personal protective equipment, eye/face protection:

Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

#### Personal protective equipment, hand protection:

Wear gloves. Nitrile rubber. Type of material and thickness: 0,45 mm. Penetration time: 8 hours. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

#### Personal protective equipment, respiratory protection:

In case of spraying/formation of spraying mists: Filter type: AX. Respiratory protection must conform to one of the following standards: EN 136/140/145.

#### Environmental exposure controls:

Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Aerosol
Colour	Colourless
Odour	Solvent
Solubility	Insoluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	88 °C	
Flammability (solid, gas)	No data	
Flammability limits	> 200 °C	

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Explosion limits	0.6 - 7 vol%	
Flash Point	-12 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	< 7 mm <sup>2</sup> /s	40 °C
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	0.714 g/cm <sup>3</sup>	20 °C. DIN 51757
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

### 9.2. Other information

Other Information: None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Oxidisers.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

Product vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### 10.4. Conditions to avoid

Avoid direct sunlight. Avoid heating and contact with ignition sources. Avoid temperatures &gt; 50°C.

### 10.5. Incompatible materials

Oxidisers.

### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:  
Aldehydes/ Carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

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

#### Acute toxicity - oral

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg			

Spray mist in mouth may irritate mucous membranes in mouth and throat. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

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#### Acute toxicity - dermal

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2800 - 3100 mg/kg			Study Report (1997)

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Acute toxicity - inhalation

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	> 25.2 mg/l			Study Report (1988)

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

**Skin corrosion/irritation:** Irritating to skin - may cause reddening.

**Serious eye damage/eye irritation:** Temporary irritation. The product does not have to be classified. Test data are not available.

**Respiratory sensitisation or skin sensitisation:** The product does not have to be classified. Test data are not available.

**Germ cell mutagenicity:** The product does not have to be classified. Test data are not available.

**Carcinogenic properties:** The product does not have to be classified. Test data are not available.

**Reproductive toxicity:** The product does not have to be classified. Test data are not available.

**Single STOT exposure:** The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Inhalation of spray mist may cause irritation to the upper airways.

**Repeated STOT exposure:** The product does not have to be classified. Test data are not available.

**Aspiration hazard:** Inhalation of spray mist may cause chemical pneumonia.

#### 11.2. Information on other hazards

**Endocrine disrupting properties:** None known.

**Other toxicological effects:** None known.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata		72hErC50	10 - 30 mg/l		OECD 201	Study Report (1995)
Crustacea	Daphnia magna		48hEC50	> 10 mg/l			
Fish	Pimephales promelas		96hLC50	1 - 10 mg/l			

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Fish	Oncorhynchus mykiss		28d NOEC	2.045 mg/l			CONCAWE, Brussels, Belgium (2010)
Crustacea	Daphnia magna		21dNOEC	1 mg/l		OECD 211	SIDS Initial Assessment Report For SIAM

Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		98 %		OECD 301 F	

The product contains at least one readily biodegradable substance. Test data are not available for all substances

#### 12.3. Bioaccumulative potential

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cas-no 92128-66-0**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	3.4 - 5.2			

The product contains at least one substance that is bioaccumulative in organisms. Test data are not available for all substances

#### 12.4. Mobility in soil

Test data are not available.

#### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

#### 12.6. Endocrine disrupting properties

None known.

#### 12.7. Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Avoid unnecessary release to the environment.

Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility.

**Category of waste:**

Aerosol sprays: EWC code: Depends on line of business and use, for instance 16 05 04\* gases in pressure containers (including halons) containing hazardous substances  
Absorbent/cloth contaminated with the product: EWC code: 15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

### SECTION 14: Transport information

**Land transport (ADR/RID)****14.1. UN number or ID number:** 1950**14.4. Packing group:**



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<b>14.2. UN proper shipping name:</b>	AEROSOLS	<b>14.5. Environmental hazards:</b>	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
<b>14.3. Transport hazard class(es):</b>	2.1		
<b>Hazard label(s):</b>	2.1		
<b>Hazard identification number:</b>		<b>Tunnel restriction code:</b>	D
<b>Other Information:</b>	-		
<b>Inland water ways transport (ADN)</b>			
<b>14.1. UN number or ID number:</b>	1950	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	AEROSOLS	<b>14.5. Environmental hazards:</b>	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
<b>14.3. Transport hazard class(es):</b>	2.1		
<b>Hazard label(s):</b>	2.1		
<b>Transport in tank vessels:</b>	-	<b>Other Information:</b>	-
<b>Sea transport (IMDG)</b>			
<b>14.1. UN number or ID number:</b>	1950	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	AEROSOLS	<b>14.5. Environmental hazards:</b>	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
<b>14.3. Transport hazard class(es):</b>	2.1	<b>Environmental Hazardous Substance Name(s):</b>	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
<b>Hazard label(s):</b>	2.1		
<b>EmS:</b>	F-D, S-U	<b>IMDG Code segregation group:</b>	- None -
<b>Air transport (ICAO-TI / IATA-DGR)</b>			
<b>14.1. UN number or ID number:</b>	1950	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	AEROSOLS, FLAMMABLE	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	2.1		
<b>Hazard label(s):</b>	2.1	<b>Other Information:</b>	-
<b>14.6. Special precautions for user</b>			

None.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

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

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**Special Provisions:**

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.  
Directive 2012/18/EU (Seveso), P3b FLAMMABLE AEROSOLS: Column 2: 5000 (net) t, Column 3: 50000 (net) t.  
Directive 2012/18/EU (Seveso), E2 Hazardous to the Aquatic Environment in Category Chronic 2: Column 2: 200 t, Column 3: 500 t.

Covered by:

Council Directive (EC) on the protection of young people at work.

Regulation (EC) of the European Parliament and of the Council on detergents.

**15.2. Chemical Safety Assessment**

REACH Reg. No.	Substance name
01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

**SECTION 16: Other information****Version history and indication of changes**

Version	Revision date	Responsible	Changes
2.0.0	13/03/2023	Bureau Veritas HSE / SJU	1,2,4,5,6,11,12,13,15,16

**Abbreviations:**

PBT: Persistent, Bioaccumulative and Toxic  
STOT: Specific Target Organ Toxicity  
vPvB: Very Persistent and Very Bioaccumulative  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration

**Other Information:**

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

**Training advice:**

A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Classification method:**

Calculation based on the hazards of the known components.

**List of relevant H-statements**

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**SDS is prepared by**

Company:

Bureau Veritas HSE Denmark A/S

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