Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

1010 Brake Cleaner

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

Relevant identified uses

Cleaner.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180 Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

chemius.net/NO713

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]







Signal word: Danger

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P391 Collect spillage.

P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (EC: 921-024-6) acetone (CAS: 67-64-1, EC: 200-662-2, Index: 606-001-00-8)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

Print date: 23.8.2019 Page 2 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	- 921-024-6 -	25-80	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411		01-2119475514-35
acetone	67-64-1 200-662-2 606-001-00-8	15-40	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		-
Carbon dioxide	124-38-9 204-696-9 -	1-10	not classified		-
Hydrocarbons, C3-4-rich, petroleum distillates	68512-91-4 270-990-9 -	1-10	Flam. Gas 1; H220		-

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Symptoms of poisoning may even occur after several hours; therefore medical observation is required at least 48 hours after the event.

Following inhalation

Ventilate the premises. Inhale fresh air. If victim is not breathing give artificial respiration. If difficulties with breathing do not stop, search for medical help.

Following skin contact

Areas of the body that have come into contact with the product must be rinsed with water. Immediately remove contaminated clothing.

Following eye contact

If substance has got into eyes, immediately wash out with plenty of water for several minutes. Seek medical advice.

Following ingestion

Rinse mouth thoroughly with water. Consult a physician. Do not induce vomiting!

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

Inhalation

Coughing, sneezing, nasal discharge, labored breathing.

Intoxication, vertigo, headache, nausea.

Vapours may cause drowsiness and dizziness.

Skin contact

Prolonged and repeated exposure may cause redness, itching and cracking of the skin in sensitive people. Itching, redness, pain.

Eye contact

Redness, tearing, pain.

Ingestion

May cause nausea/vomiting and diarrhea.

Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.

Print date: 23.8.2019 Page 3 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



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

-

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).

Fire extinguishing powder.

Foam.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

.

5.3. Advice for firefighters

Protective actions

Prolonged heating can cause an explosion. Cool the endangered containers with water spray.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137). self-contained breathing apparatus

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Prevent access to unprotected personnel.

6.1.2. For emergency responders

Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems and ground water. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

Print date: 23.8.2019 Page 4 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



6.3.3. Other information

-

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Pressurized container; protect from sunlight and do not expose to tempratures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition - no smoking.

Measures to prevent aerosol and dust generation

-

Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Do not eat, drink or smoke while working. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not breathe vapours/mist. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep out of the reach of children. Keep in a dry place. Keep in cool place. Do not expose to sun and temperatures exceeding 50 °C.

7.2.2. Packaging materials

Store only in original container.

7.2.3. Requirements for storage rooms and vessels

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7.2.4. Storage class

_

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

-

Print date: 23.8.2019 Page 5 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS) Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values	
	ml/m ³ (ppm)		ml/m ³ (ppm)	mg/m ³		
Acetone (67-64-1)	500	1210	1500	3620		
Butane (106-97-8)	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
Carbon dioxide (124-38-9)	5000	9150	15000	27400		

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

8.1.3. DNEL/DMEL values

For components

Name	Туре	Exposure route	Exposure frequency	Value	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	Worker	dermal	long term (systemic effects)	773 mg/kg	
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	Worker	inhalation	long term (systemic effects)	2035 mg/m ³	
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	Consumer	dermal	long term (systemic effects)	699 mg/kg	
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	Consumer	inhalation	long term (systemic effects)	608 mg/m ³	
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	Consumer	oral	long term (systemic effects)	699 mg/kg	
acetone (67-64-1)	Worker	dermal	long term (systemic effects)	186 mg/kg	
acetone (67-64-1)	Worker	inhalation	short term (systemic effects)	2420 mg/m ³	
acetone (67-64-1)	Worker	inhalation	long term (systemic effects)	1210 mg/m ³	
acetone (67-64-1)	Consumer	oral	long term (systemic effects)	62 mg/kg	
acetone (67-64-1)	Consumer	dermal	long term (systemic effects)	62 mg/kg	
acetone (67-64-1)	Consumer	inhalation	long term (systemic effects)	200 mg/m ³	

Print date: 23.8.2019 Page 6 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
acetone (67-64-1)	marine water	1,06 mg/L	
acetone (67-64-1)	fresh water	10,6 mg/L	
acetone (67-64-1)	fresh water sediment	30,4 mg/L	
acetone (67-64-1)	marine water sediment	3,04 mg/L	
acetone (67-64-1)	soil	0,112 mg/L	
acetone (67-64-1)	water treatment plant	19,5 mg/L	

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

For additional information on handling with material/product see section 7.1. Use good personal hygiene practices – wash hands at breaks and when done working with material.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber	0,7 mm	30 min	EN 374-4

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. In case of insufficient ventilation wear mask with filter A (EN 14387).

Thermal hazards

_

8.2.3. Environmental exposure controls

_

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

F	Physical state:	liquid
-	Colour:	colorless
-	Odour:	characteristic

Print date: 23.8.2019 Page 7 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



Important health, safety and environmental information

- pH No information. Melting point/freezing point No information. Initial boiling point/boiling range No information. Flash point No information. Evaporation rate No information. Flammability (solid, gas) > 250 °C Explosion limits (vol%) > 0,6 vol % Vapour pressure 3500 hPa at 20 °C Vapour density No information. Density Density: O,725 g/cm³ Solubility No information. Partition coefficient No information. Auto-ignition temperature No information. Viscosity No information. Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. Oxidising properties No information.			
- Initial boiling point/boiling range - Flash point - Evaporation rate - Evaporation rate - Flammability (solid, gas) - 250 °C - Explosion limits (vol%) - Vapour pressure - Vapour density - Vapour density - Density - Density - Solubility - No information Partition coefficient - Auto-ignition temperature - Decomposition temperature - Viscosity - Explosive properties - Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	pH	No information.
- Flash point No information. - Evaporation rate No information. - Flammability (solid, gas) > 250 °C - Explosion limits (vol%) > 0,6 vol % - Vapour pressure 3500 hPa at 20 °C - Vapour density No information. - Density Density: - O,725 g/cm³ - Solubility No information. - Partition coefficient No information. - Auto-ignition temperature No information. - Decomposition temperature No information. - Viscosity No information. - Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Melting point/freezing point	No information.
- Evaporation rate	-	Initial boiling point/boiling range	No information.
- Flammability (solid, gas) > 250 °C - Explosion limits (vol%) > 0,6 vol % - Vapour pressure 3500 hPa at 20 °C - Vapour density No information Density Density: 0,725 g/cm³ - Solubility No information Partition coefficient No information Auto-ignition temperature No information Decomposition temperature No information Viscosity No information Viscosity Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Flash point	No information.
- Explosion limits (vol%) > 0,6 vol % - Vapour pressure 3500 hPa at 20 °C - Vapour density No information. - Density 0,725 g/cm³ - Solubility No information. - Partition coefficient No information. - Auto-ignition temperature No information. - Decomposition temperature No information. - Viscosity No information. - Viscosity Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Evaporation rate	No information.
- Vapour pressure - Vapour density - No information. - Density - Density - Solubility - Solubility - Partition coefficient - Auto-ignition temperature - Decomposition temperature - Viscosity - Viscosity - Explosive properties - Solubility - No information No information Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Flammability (solid, gas)	> 250 °C
- Vapour density - Density - Density: 0,725 g/cm³ - Solubility - No information Partition coefficient - No information Auto-ignition temperature - Decomposition temperature - No information Viscosity - No information Viscosity - Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Explosion limits (vol%)	> 0,6 vol %
- Density Density: 0,725 g/cm³ - Solubility No information. Partition coefficient No information. Auto-ignition temperature No information. Decomposition temperature No information. Viscosity No information. Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Vapour pressure	3500 hPa at 20 °C
O,725 g/cm³ - Solubility No information. - Partition coefficient No information. - Auto-ignition temperature No information. - Decomposition temperature No information. - Viscosity No information. - Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Vapour density	No information.
 Partition coefficient Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. 	-	Density	•
 Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. 	-	Solubility	No information.
 Decomposition temperature Viscosity Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. 	-	Partition coefficient	No information.
 Viscosity Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. 	-	Auto-ignition temperature	No information.
- Explosive properties Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.	-	Decomposition temperature	No information.
air/ vapour mixtures are possible.	-	Viscosity	No information.
- Oxidising properties No information.	-	Explosive properties	· · · · · · · · · · · · · · · · · · ·
	-	Oxidising properties	No information.

9.2. Other information

- Remarks:

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

-

10.4. Conditions to avoid

No special precautions required. Consider the directions for use and storage. Do not store above 50 °C. Protect from heat, direct sunlight, open fire, sparks.

10.5. Incompatible materials

Oxidants.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Print date: 23.8.2019 Page 8 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Туре	Species	Time	Value	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	oral	LD ₅₀	rat		5840 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, $<$ 5% n-hexane (-)	dermal	LD ₅₀	rat		2920 mg/kg		
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, $<$ 5% n-hexane (-)	inhalation	LC ₅₀	rat	4 h	25,2 mg/l		vapour
acetone (67-64-1)	oral	LD ₅₀	rat		5800 mg/kg		
acetone (67-64-1)	dermal	LD ₅₀	rabbit		20000 mg/kg		
acetone (67-64-1)	oral	LD ₅₀	mouse		3000 mg/kg		
acetone (67-64-1)	inhalation	LC ₅₀	rat	4 h	32000 mg/l		vapour

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
For product			Irritating to skin.		
acetone (67-64-1)			Irritating.		

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
For product			Irritating to eyes.		
acetone (67-64-1)			Strong eye irritant.		

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

Name	Exposure route	Туре	Species	Time	Organ	Value	Result	Method	Remark
acetone (67-64- 1)	inhalation						Product is narcotic at high vapour concentrations.		

(i) STOT-repeated exposure

No information.

Print date: 23.8.2019 Page 9 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



(j) Aspiration hazard

No information.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Туре	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	LC ₅₀	11,4 mg/L	96 h	fish	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)	
	EC ₅₀	3 mg/L	48 h	daphnia	Daphnia magna	202 (Daphnia sp. Acute Immobilisation Test)	
	EC ₅₀	30 mg/L	72 h	algae	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)	
acetone (67-64-1)	LC ₅₀	5540 – 8300 mg/L	96 h	fish	Lepomis macrochirus		
	LC ₅₀	7500 mg/L	96 h	fish	Leuciscus idus		
	LC ₅₀	5540 mg/L	96 h	fish	Oncorhynchus mykiss		
	EC ₅₀ 6100 – 48 h daphnia <i>Daphnia magna</i> 12700 mg/L						
	EC ₅₀	7500 mg/L	96 h	algae	Selenastrum capricornutum		
	IC ₅₀	7500 mg/L	8 days	algae	Scenedesmus quadricauda		

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Туре	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	NOEC	30 mg/l	21 days	Magna Daphnia	Daphnia magna	OECD 211	
acetone (67-64-1)	LC ₅₀	4042 mg/l	14 days	fish			
	NOEC	3400 mg/l	48 h	algae	Pseudokirchneriella subcapitata		

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Туре	Rate	Time	Evaluation	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (-)	aerobic			readily biodegradable		
acetone (67-64-1)	aerobic			readily biodegradable		

Print date: 23.8.2019 Page 10 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Water hazard class 2 (self-assessment): hazardous for water.

Do not allow to reach ground water, water courses or sewage system.

Danger to drinking water if even small quantities leak into ground water.

Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment.

For components

Substance: acetone

Water hazard class 1 (Self-assessment): slightly hazardous for water

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Waste should be handled in accordance with local or national regulations Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

15 01 04 - metallic packaging

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

Print date: 23.8.2019 Page 11 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

IMDG name: AEROSOLS (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

14.3. Transport hazard class(es)

2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D)

IMDG EmS

F-D, S-U

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.





Print date: 23.8.2019 Page 12 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



SECTION 16. OTHER INFORMATION

Indication of changes

-

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW - see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC₅₀ - Lethal Concentration to 50 % of a test population

 $\ensuremath{\mathsf{LD}}_{50}$ - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

Print date: 23.8.2019 Page 13 of 14

Product name: 1010 Brake Cleaner

Creation date: 11.8.2008 · Revision: 3.7.2019 · Version: 1



PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure (STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.



☑ Provided correct labelling of the product

☑ Compliance with the local legislation

☑ Provided correct classification of the product

☑ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

Print date: 23.8.2019 Page 14 of 14