SAFETY DATA SHEET



Anti-Seize Spray

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

1.1 Product identifier

Product name	: Anti-Seize Spray
UFI	: DTR0-C0Y0-N009-20DK
Product code	: 270000
Color	: Gray.
Product type	: Aerosol.

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

Identified uses		
Aerosol product Corrosion inhibitor.Lubricating agents When using Anti-Seize on chrome-nickel steel, the	formation of chromium(VI) can occur above 400°C.	
Uses advised against Reason		
Not applicable.		

1.3 Details of the supplier of the safety data sheet

e-mail address of person responsible for this SDS	: msds@weicon.de
WEICON GmbH & Co. KG Königsberger Str. 25, 48157 Münster, Germany phone: +49 251 93220, Fax: +49 251 9322244 email: info@weicon.de, URL: www.weicon.de	
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1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333
	(English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated. H315 - Causes skin irritation. H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.
Prevention	:	 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. P264 - Wash thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves. Wear eye or face protection.
Response	:	 P391 - Collect spillage. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}C/122 ^{\circ}F.$
Disposal	:	P501 - Dispose of waste according to applicable legislation.
Hazardous ingredients	:	calcium dihydroxide
Supplemental label elements	:	Contains Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Aspiration hazard - Not applicable.
SECTION 3: Compos	iti	on/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
butane	REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	REACH #: 01-2119475514-35 EC: 921-024-6	≥10 - <20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
calcium dihydroxide	REACH #: 01-2119475151-45 EC: 215-137-3 CAS: 1305-62-0	≥3 - ≤5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	-	[1] [2]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	≥1 - ≤2.3	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg M [Acute] = 10	[1] [2]
Aluminium powder (stabilized)	REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≥1 - ≤3	Flam. Sol. 1, H228 Water-react. 2, H261	-	[2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1 - ≤1.4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
Benzenesulfonic acid, di- C10-18-alkyl derivs., calcium salts	EC: 298-637-4 CAS: 93820-57-6	≥0.3 - <1	Skin Sens. 1, H317	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the

concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid r	neasures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

<u>Over-exposure signs/sy</u>	<u>emptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imm	nediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

SECTION 5. Thengin		y measures	
5.1 Extinguishing media			
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	:	None known.	
5.2 Special hazards arising f	ron	n the substance or mixture	
Hazards from the substance or mixture	:	Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
5.3 Advice for firefighters			
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for	

SECTION 6: Accidental release measures

chemical incidents.

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for	r c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Date of issue/Date of revision		: 5/12/2025 Date of previous issue : 2/19/2025 Version : 5.3 5/18

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne
E2	200 tonne	500 tonne

7.3 Specific end use(s)

 Recommendations
 : When using Anti-Seize on chrome-nickel steel, the formation of chromium(VI) can occur above 400°C.

 Industrial sector specific
 : Not available.

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Future TRGS 900 OEL (Germany, 7/2021). TWX: 2400 mg/m 3 hours. PEAK: 9600 mg/m 15 minutes. PFAK: 9600 mg/m 15 minutes. DFG MAC-values list (Germany, 10/2021). [Butane] TWX: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 2400 mg/m 2 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. PFGM: ACC-values list (Germany, 7/2022). TWX: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWX: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWX: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWX: 1000 ppm 8 hours. Calcium dihydroxide DFG MAC-values list (Germany, 7/2022). TWA: 1800 mg/m 3 hours. Form: inhalable fraction PEAK: 2 mg/m 4 times per shift, 15 minutes. Form: inhalable fraction REAK: 200 mg/m 4 times per shift, 15 minutes. Form: inhalable fraction PEAK: 2 mg/m 4 times per shift, 15 minutes. Form: inhalable fraction REAK: 200 mg/m 4 times per shift, 15 minutes. Form: inhalable fraction PEAK: 2 mg/m 4 times per shift, 15 minutes. Form: inhalable fraction REAK: 2.002 mg/m 4 times per shift, 15 minutes.	Product/ingredient name	Exposure limit values
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SECTION 8: Exposure controls/personal protection

Biological exposure indices

Product/ingredient name	Exposure indices DFG BEI-values list (Germany, 7/2022) [Copper and its inorganic compounds] BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.			
Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with li				

assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
zálcium dihydroxide	DNEL	Long term Inhalation	1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Short term Inhalation	4 mg/m³	General population	Local
	DNEL	Short term Inhalation	4 mg/m³	Workers	Local
copper	DNEL	Long term Oral	0.041 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1 mg/m³	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	General population	Local
	DNEL	Long term Dermal	137 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term	2.5 mg/m ³	General	Systemic

SECTION 8: Exposure controls/personal protection										
		Inhalation		population						
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic					
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic					
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic					

No PNECs available.

8.2 Exposure of	controls
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Appropriate engineering controls	:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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Individual protection measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

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Anti-Seize Spray

SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

3.1 mormation on basic physical	a	nu chemical properties
<u>Appearance</u>		
Physical state	:	Gas. [Aerosol]
Color	:	Gray.
Odor	:	Solvent
Odor threshold	:	Not available.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit	:	Lower: 0.6%
Flash point	:	Closed cup: Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Kinematic: 0.45 mm ² /s
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	350 kPa (2625.2 mm Hg)
Relative density	:	Not applicable.
Density	:	0.72 g/cm ³ [20°C (68°F)]
Vapor density	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.
9.2 Other information		
9.2.1 Information with regard to	-	-
Heat of combustion	:	22.79 kJ/g
Explosive properties	:	Not available.
Oxidizing properties	•	Not available.
Aerosol product		0
Type of aerosol	:	Spray
9.2.2 Other safety characteristic	S	

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
calcium dihydroxide	LD50 Oral	Rat	7340 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Anti-Seize Spray	27826.5	N/A	N/A	N/A	N/A
calcium dihydroxide	7340	N/A	N/A	N/A	N/A
copper	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
calcium dihydroxide	Eyes - Severe irritant	Rabbit	-	10 mg	-
zinc oxide	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.	·	•		
Sensitization					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Category 3	-	Narcotic effects	
calcium dihydroxide	Category 3	-	Respiratory tract irritation	

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product	/ingredient name	R	esult		
Hydrocarbons, C6-C7, n-alk hexane	- Category 1				
Information on the likely routes of exposure	: Not available.				
Potential acute health effect	<u>ts</u>				
Eye contact	: Causes serious eye dama	ge.			
Inhalation	: No known significant effect	ts or critical hazards.			
Skin contact	: Causes skin irritation.				
Ingestion	: No known significant effec	ts or critical hazards.			
Symptoms related to the ph	ysical, chemical and toxicolo	gical characteristics			
Eye contact	: Adverse symptoms may ir pain watering redness	clude the following:			
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing				
Skin contact	: Adverse symptoms may ir pain or irritation redness blistering may occur	clude the following:			
Ingestion	: Adverse symptoms may ir stomach pains	clude the following:			
Delayed and immediate effe	cts and also chronic effects f	rom short and long term expo	<u>osure</u>		
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	s : Not available.				
Potential chronic health ef	fects				
Not available.					
Conclusion/Summary	: Not available.				
General	: No known significant effect	ts or critical hazards.			
Carcinogenicity	: No known significant effect				
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SECTION 11: Toxicological information

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
•	C C

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Not available.
11.2.2 Other information
Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
calcium dihydroxide	Acute LC50 33884.4 µg/l Fresh water	Fish - <i>Clarias gariepinus -</i> Fingerling	96 hours
copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 µg/l Fresh water	Daphnia - <i>Daphnia longispina</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 16 μg/l Fresh water	Algae - <i>Chlorella pyrenoidosa -</i> Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - <i>Plantae</i> - Exponential growth phase	72 hours
	Acute LC50 0.072 μg/l Marine water	Crustaceans - <i>Amphipoda -</i> Adult	48 hours
	Acute LC50 7.56 μg/l Marine water	Fish - <i>Periophthalmus waltoni -</i> Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - <i>Nitzschia closterium</i> - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - <i>Cambarus</i> <i>bartonii</i> - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish - <i>Oreochromis niloticus</i> - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Date	of	issue/Date of revision	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Anti-Seize Spray

SECTION 12: Ecological information

Conclusion/Summary

: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
zinc oxide	-	28960	High

12.4	Mobility	in soil
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Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code		Waste designation		
16 05 04*	gases in pressure containers (including halons) containing hazardous substances			
Packaging	I			
Methods of disposal	packaging sh	on of waste should be avoided or minimized wherever possible. Waste nould be recycled. Incineration or landfill should only be considered ng is not feasible.		
Type of packaging		European waste catalogue (EWC)		
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances		
Special precautions		and its container must be disposed of in a safe way. Empty containers retain some product residues. Do not puncture or incinerate container.		

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ		
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950		
14.2 UN proper shipping name	ÆEROSOLS (butane, propane)	ÆROSOLS (butane, propane)	ÆROSOLS (butane, propane)	Rerosols, flammable (butane, propane)		
14.3 Transport hazard class(es)			2.1	2.1		
14.4 Packing group	-	-	-	-		
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		

Additional information		
ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Limited quantity 1 L Special provisions 190, 327, 625, 344 Tunnel code (D) ADR Classification Code: 5F
ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. Special provisions 190, 327, 625, 344
IMDG	:	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-D, S-U <u>Special provisions</u> 63, 190, 277, 327, 344, 381, 959
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. Special provisions A145, A167, A802
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime transport in	:	Not available.

bulk according to IMO instruments

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]		
butane propane		≥25 - ≤50 ≥10 - ≤25	40 40		
	. Net en alia		40		
Labeling <u>Other EU regulations</u>	: Not applic	able.			
Industrial emissions (integrated pollution prevention and control) - Air	: Listed				
Industrial emissions (integrated pollution prevention and control) - Water	: Listed				
Explosive precursors Ozone depleting substanc Not listed.	: Not applic <u>es (1005/200</u> 9				
Prior Informed Consent (P Not listed.	<u>IC) (649/2012</u>	<u>/EU)</u>			
Persistent Organic Polluta Not listed.	<u>nts</u>				
Aerosol dispensers	:				
	3				
	3 Extremely				
Seveso Directive	3 Extremely	y flammable			
	-				
	-				
This product is controlled un	-				
This product is controlled un Danger criteria	-				
This product is controlled un Danger criteria Category P3a E2	der the Seves	o Directive.			
This product is controlled un Danger criteria Category P3a E2 Annex VIIA - Labelling 1	der the Seves	o Directive.	Concentration		
This product is controlled un Danger criteria Category P3a E2 Annex VIIA - Labelling f dentification	der the Seves	o Directive.	Concentration 15% or over but less than 3	30%	
This product is controlled un Danger criteria Category P3a E2 Annex VIIA - Labelling f dentification liphatic hydrocarbons VOC content	der the Seves	o Directive.		30%	
This product is controlled un Danger criteria Category P3a E2 Annex VIIA - Labelling f Indentification liphatic hydrocarbons VOC content VOC (g/L)	der the Seves	o Directive.		30%	
This product is controlled un Danger criteria Category P3a E2 Annex VIIA - Labelling f dentification liphatic hydrocarbons VOC content VOC (g/L) lational regulations	der the Seves for Content : 62.8 % : 443 g/L	o Directive.		30%	
Category P3a	der the Seves for Content : 62.8 % : 443 g/L : 2B nce	so Directive.	15% or over but less than 3	30%	

Category	Reference number
P3a	1.2.3.1
E2	1.3.2

Hazard class for water	: 2
Technical instruction on	: TA-Luft Number 5.2.5: 50-80%
air quality control	TA-Luft Class III - Number 5.2.2: 1.8%
	TA-Luft Number 5.2.1: 1.1-6.9%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	All components are listed or exempted.
United States	:	Not determined.
Viet Nam	:	Not determined.
15.2 Chemical Safety	:	This product contains substances for which Chemical Safety Assessments are still

Assessment

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group	Date of issue/Date of revision	: 5/12/2025 Date of previous issue : 2/19/2025 Version : 5.3 17/18
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	uerenyme	
Abbreviations and : ATE = Acute Toxicity Estimate	acronyms	,
	Abbreviations and	: ATE = Acute Toxicity Estimate

SECTION 16: Other information			
vPvB = Very	Persistent and Very Bioaccumulative		
Procedure used to derive the classification	according to Regulation (EC) No. 1272/2008 [CLP/GHS]		
Classification	Justification		
Aerosol 1, H222, H229	On basis of test data		
Skin Irrit. 2, H315	Calculation method		
Eye Dam. 1, H318	Calculation method		
Aquatic Chronic 2, H411	Calculation method		
Full text of abbreviated H statements			
H220	Extremely flammable gas.		
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if		
	heated.		
H225	Highly flammable liquid and vapor.		
H228	Flammable solid.		
H261 H280	In contact with water releases flammable gas. Contains gas under pressure; may explode if heated.		
H302	Harmful if swallowed.		
H302	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
Full text of classifications [CLP/GHS]			
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aerosol 1	AEROSOLS - Category 1		
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1		
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1		
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1		
Flam. Gas 1A	FLAMMABLE GASES - Category 1A		
Flam. Liq. 2 Flam. Sol. 1	FLAMMABLE LIQUIDS - Category 2 FLAMMABLE SOLIDS - Category 1		
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITIZATION - Category 1		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -		
	Category 3		
Water-react. 2	SUBŠTÁNCES AND MIXTURES, WHICH IN CONTACT WITH		
	WATER, EMIT FLAMMABLE GASES - Category 2		
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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision