

SAFETY DATA SHEET

Page 1



BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario, L3R 0H1
Canada
1-877-744-0751

PRODUCT: COIL DSCALE CAUSTIC COIL CLEANER

CODE: 7277

SECTION 01: IDENTIFICATION

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario
Canada
L3R 0H1
1-877-744-0751
Product identifier..... COIL DSCALE CAUSTIC COIL CLEANER
Product code..... 7277
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
Product use..... Coil cleaner.

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2 (liver, kidney, blood).
Signal word..... DANGER.
Hazard statement..... H314 Causes severe skin burns and eye damage. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (liver, kidney, blood) through prolonged or repeated exposure.
Precautionary statements..... P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P362+P364 Take off contaminated clothing and wash before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant. P233 Keep container tightly closed.
Other hazards..... None.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Sodium metasilicate pentahydrate	6834-92-0	4.5-5
2-Butoxyethanol	111-76-2	3.5-4
Sodium (C10-16) benzenesulfonate	68081-81-2	2-2.5
Sodium xylenesulfonate	1300-72-7	1.5-2
Sodium hydroxide	1310-73-2	0.5-0.7
Potassium hydroxide	1310-58-3	0.4-0.5

SECTION 04: FIRST-AID MEASURES

Routes of exposure
Inhalation..... If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
Ingestion..... Call immediately a poison centre or a doctor. Do not induce vomiting or give anything by mouth to an unconscious person. Rinse out mouth with water. .

PRODUCT: COIL DSCALE CAUSTIC COIL CLEANER**CODE: 7277****SECTION 04: FIRST-AID MEASURES**

Skin contact.....	Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. Get medical aid.
Eye contact.....	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention immediately.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Medical attention and special treatment.....	IF exposed or concerned: Get medical advice/attention. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media.....	Use an extinguishing agent suitable for the surrounding fire.
Hazardous combustion products.....	The substances/groups of substances mentioned can be released in case of fire.: Carbon oxides. Harmful vapours. Oxides of sulphur .
Special protective equipment and precautions	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Sensitivity to static discharge.....	Product is not sensitive to static discharge.
Sensitivity to mechanical impact.....	Product is not sensitive to mechanical impact.
Further information.....	Contact with some reactive metals may produce flammable hydrogen gas.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up.
Environmental precautions.....	Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so .
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Contaminated absorbent material may pose the same hazards as the spilled product . Dispose of absorbed material in accordance with regulations.

SECTION 07: HANDLING AND STORAGE

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product . Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed .
Storage needs.....	Keep in a dry, cool and well-ventilated place.
Materials to avoid.....	Do not mix with other chemicals or cleaners. Keep away from strong acids. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Sodium metasilicate pentahydrate	not available	not available	not available	not available	not available
2-Butoxyethanol	20 ppm	not available	50 ppm	not available	not available
Sodium (C10-16) benzenesulfonate	not available	not available	not available	not available	not available
Sodium xylenesulfonate	not available	not available	not available	not available	not available
Sodium hydroxide	no data available	2 mg/m3 (Ceiling)	no data available	no data available	2 mg/m3 (ceiling)
Potassium hydroxide	ceiling: 2 mg/m3	no data available	no data available	no data available	no data available
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used .				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	Under normal use conditions, with adequate ventilation, no special handling equipment is required. If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.				
Clothing/type.....	Wear clean long legged, long sleeved work clothes.				

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CODE: 7277

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene measures..... Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.
 Color..... colourless.
 Odour..... pungent odour.
 Odour threshold..... not available.
 pH..... 13.5-14.
 Melting point (°C)..... not applicable.
 Freezing point (°C)..... 0.
 Initial boiling point (°C)..... 100.
 Flash point (°C), Method..... >100°C, closed cup.
 Evaporation rate..... not available.
 Upper flammability limit (% vol)..... not available.
 Lower flammability limit (% vol)..... not available.
 Vapour pressure (mm Hg)..... 17.5.
 Vapour density (air=1)..... > 1.
 Relative density/Specific Gravity..... 1.09.
 Water solubility..... soluble.
 Solubility in other solvents..... not available.
 Partition coefficient — n-octanol/water..... not available.
 Auto ignition temperature (°C)..... > 200 °C.
 Thermal decomposition temperature..... not available.
 Viscosity..... thin liquid.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.
 Possibility of hazardous reactions..... No hazardous reactions when stored and handled according to instructions. The product is chemically stable. Contact with some reactive metals may produce flammable hydrogen gas.
 Conditions to avoid..... Do not mix with anything but water.
 Incompatible materials..... Acids, strong oxidizing agents.
 Hazardous decomposition products..... Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon (CO and CO₂), fumes and smoke may be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Sodium metasilicate pentahydrate	not available	1152 mg/kg (oral - rat); > 5,000 mg/kg (dermal -rabbit)
2-Butoxyethanol	2.2 mg/l (Inhl-rat, 4 h)	530 mg/kg (oral-rat); 450 mg/kg (dermal-rabbit)
Sodium (C10-16) benzenesulfonate	not available	> 1,000 mg/kg (oral-rat); > 2,000 mg/kg (dermal-rabbit)
Sodium xylenesulfonate	not available	7200 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Sodium hydroxide	no data available	240 mg/kg (oral-rat); 1350 mg/kg (dermal, rabbit)
Potassium hydroxide	no data available	273 mg/kg (oral-rat); 2000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of spray or mist may cause irritation of the respiratory tract.	
Ingestion.....	Ingestion may cause pain, irritation and burns in the mouth, throat and stomach.	
Skin contact.....	Skin contact causes irritation and possible burns.	
Eye contact.....	Can cause eye damage.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.
Skin corrosion/irritation.....	Result: Skin corrosion.
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.
Respiratory or skin sensitisation.....	Non-sensitizing.
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.
Aspiration hazard.....	No aspiration hazard expected.
Chronic toxicity/effects	
Specific target organ toxicity (STOT) repeated exposure	Absorption of 2-Butoxyethanol by inhalation and/or repeated skin contact may cause injury to liver, kidney and blood damage .
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.
Reproductive toxicity.....	May cause adverse reproductive effects. Possible risk of harm to the unborn child. 2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory animals at maternally toxic doses .
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	May cause long-term adverse effects in the aquatic environment.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Bioaccumulative potential.....	No data available.
Mobility in soil.....	No data available.
Other adverse effects.....	Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	
Waste disposal of substance.....	Dispose of in accordance with national, state and local regulations.
Container disposal	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification.....	UN3266, Corrosive liquid, basic, inorganic, n.o.s. (sodium metasilicate). Class 8, PGIII.
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SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status.....	This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.
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SECTION 16: OTHER INFORMATION

Disclaimer.....	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.
Prepared by:	CanChem Consultant
Preparation date.....	NOV 14/2017