



MR. JANITORIAL SUPPLIES
1125 KERRISDALE BLVD.
NEWMARKET, ON, L3Y 8W1
CANADA
905-836-4250

PRODUCT: BREAK-THRU HEAVY DUTY CLEANER DEGREASER
SECTION 01: IDENTIFICATION

Supplier identifier..... Mr. Janitorial Supplies
1125 Kerrisdale Blvd.
Newmarket , ON L3Y 8W1
CA
905-836-4250

Product identifier..... BREAK-THRU HEAVY DUTY CLEANER DEGREASER

Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).

Product use..... General purpose dilutable cleaner.

SECTION 02: HAZARD IDENTIFICATION


Hazard classification..... Skin Irritation — Category 2. Serious Eye Damage — Category 1. Skin Sensitizer — Category 1.

Signal word..... DANGER.

Hazard statement..... H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

Precautionary statements..... P261 Avoid breathing fume/mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. 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. P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards..... None.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Alcohols, C9-11, ethoxylated	68439-46-3	4-4.5
Sodium metasilicate pentahydrate	6834-92-0	1-1.1
D-limonene	5989-27-5	0.8-1

SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and laundry before reuse. If irritation develops, 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. Chemical burns must be treated promptly by a physician. Obtain medical attention immediately.

Medical attention and special treatment..... Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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.

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SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Not flammable. Foam, Carbon dioxide (CO₂), Dry chemical. 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. Sodium oxides. Harmful vapours.

Special protective equipment and precautions Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Material can be slippery when wet.

Sensitivity to static discharge..... Product is not sensitive to static discharge.

Sensitivity to mechanical impact..... Product is not sensitive to mechanical impact.

Further information..... During fire, gases hazardous to health may be formed.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only . Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. Eliminate all sources of ignition. Ventilate area if indoors.

Environmental precautions..... Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

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. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. For large amounts: Pump off product.

SECTION 07: HANDLING AND STORAGE

Handling precautions..... Handle as an industrial chemical. Read label on container before using. Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed . Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product .

Storage needs..... Keep in a dry, cool and well-ventilated place.

Materials to avoid..... Keep away from strong acids. Keep away from strong bases. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		PEL	OSHA PEL		NIOSH
	TWA	STEL		STEL	REL	
Alcohols, C9-11, ethoxylated	not available	not available	not available	not available	not available	not available
Sodium metasilicate pentahydrate	not available	not available	not available	not available	not available	not available
D-limonene	not available	not available	not available	not available	not available	not available
Engineering controls.....	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.					
Individual protection measures						
Eye/type.....	Safety glasses with side-shields. Wear face shield if splashing hazard exists.					
Gloves/type.....	Wear chemical resistant protective gloves.					
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.					
Hygiene measures.....	Wear clean long legged, long sleeved work clothes. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke during work. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.

Color..... orange.

Odour..... citrus.

Odour threshold..... no data available.

pH..... 12-12.5.

Melting point (°C)..... not applicable.

Freezing point (°C)..... < 0.

Initial boiling point (°C)..... 100.

Flash point (°C), Method..... >100°C, closed cup.

Evaporation rate..... no data available.

PRODUCT: BREAK-THRU HEAVY DUTY CLEANER DEGREASER**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Upper flammability limit (% vol).....	no data available.
Lower flammability limit (% vol).....	no data available.
Vapour pressure (mm Hg).....	17.5.
Vapour density (air=1).....	> 1.
Relative density/Specific Gravity.....	1.08.
Water solubility.....	soluble.
Solubility in other solvents.....	no data available.
Partition coefficient — n-octanol/water.....	no data available.
Auto ignition temperature (°C).....	> 200 °C.
Thermal decomposition temperature.....	no data available.
Viscosity.....	thin liquid.

SECTION 10: STABILITY AND REACTIVITY

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 and bases. Strong oxidizing agents.
Hazardous decomposition products.....	Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Alcohols, C9-11, ethoxylated	not available	>2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Sodium metasilicate pentahydrate	not available	1152 mg/kg (oral - rat); > 5,000 mg/kg (Dermal -rabbit)
D-limonene	>20 mg/l (inhalation-rat, 4h)	4,400 mg/kg (oral-rat); >5,000 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.....	Contact may cause skin irritation.	
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.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Method: calculation method. Virtually nontoxic by inhalation.	
Skin corrosion/irritation.....	Result: Moderate skin irritation.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Repeated or prolonged contact may cause skin sensitization .	
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	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
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.

PRODUCT: BREAK-THRU HEAVY DUTY CLEANER DEGREASER**SECTION 12: ECOLOGICAL INFORMATION**

Mobility in soil..... No data available.
Other adverse effects..... No data available.

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..... Not classified as a dangerous good under transport regulations.

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.

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
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