


SAFETY DATA SHEET

Section 1: Identification

Product Identifier	Coil Kleen 421
Other Means Of Identification	N/A
Recommended Use	Coil cleaner.
Initial supplier	GP Chemicals Specialty Ltd. 65 Beckett Avenue Holland Landing, ON L9N 1R8
Emergency telephone number	1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone.
Issuing date	2020-02-20

Section 2: Hazardous Identification

Physical Hazards	Corrosive to metals (Category 1) Skin corrosion/irritation (Sub-category 1B) Serious eye damage/eye irritation (Category 1) Specific target organ toxicity - single exposure (Category 3), Respiratory system
Environmental Hazards	No data.
Label Elements	
Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness
Precautionary statement	Keep only in original packaging. Avoid breathing mist or vapor. Do not eat, drink or smoke when using this product. Wear eye/face protection. Wear protective gloves/protective clothing. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves: > 8 hours (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: splash goggles. Wear protective clothing. GENERAL ADVICE. HYDROFLUORIC (HF) ACID BURNS REQUIRE IMMEDIATE AND SPECIALIZED FIRST AID AND MEDICAL TREATMENT. SYMPTOMS MAY BE DELAYED UP TO 24 HOURS DEPENDING ON THE CONCENTRATION OF HF. AFTER

	DECONTAMINATION WITH WATER, FURTHER DAMAGE CAN OCCUR DUE TO PENETRATION/ABSORPTION OF THE FLUORIDE ION. TREATMENT SHOULD BE DIRECTED TOWARD BINDING THE FLUORIDE ION AS WELL AS EFFECTS OF EXPOSURE. SKIN EXPOSURES CAN BE TREATED WITH A 2.5% CALCIUM GLUCONATE GEL.
Response if inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or physician.
Response if swallowed	DRINK LARGE AMOUNT OF WATER TO DILUTE. DO NOT INDUCE VOMITING. SEVERAL GLASSES OF MILK OR SEVERAL OUNCES OF MILK OF MAGNESIA MAY BE GIVEN FOR THEIR SOOTHING EFFECT. GET MEDICAL ATTENTION IMMEDIATELY.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations. For surplus or bulk disposal, a professional licensed disposal contractor should be called for doing the job.
Hazards not otherwise classified (HNOC)	N/A

Section 3: Composition/Information On Ingredients

Chemical Name	CAS No.	Concentration %	Common names/ synonyms	Other identifiers
Phosphoric Acid	7664-382	5-10	N/A	-
Hydrofluoric Acid	7664-39-3	7-13	N/A	-
Dodecyl alcohol	112-53-8	1-5	N/A	-
Glycol ether	111-76-2	1-5	N/A	-

Section 4: First-Aid Measures

<i>Inhalation</i>	Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment, use the buddy system). Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen. DO NOT allow victim to move about unnecessarily. If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if
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	the heart has stopped, cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED) immediately. Avoid mouth-to-mouth contact by using mouth guards or shields. Quickly transport victim to an emergency care facility.
<i>Skin Contact</i>	Avoid direct contact. Wear chemical protective clothing. Remove contaminated clothing. Wash affected area with lukewarm water for at least 30 minutes. If irritation persists, repeat flushing. DO NOT INTERRUPT FLUSHING. If necessary, and it can be done safely, continue flushing during transport to emergency care facility. Quickly transport victim to an emergency care facility. Double bag, seal, label and leave contaminated clothing, shoes and leather goods at the scene for safe disposal.
<i>Eye Contact</i>	Avoid direct contact. Contact lenses should never be worn when working with this product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto the face. Quickly transport victim to an emergency care facility. NOTE: Any eye contact will also involve significant inhalation exposure. Seek immediate medical attention
<i>Ingestion</i>	NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.
<p>*****</p> <p>Provide general supportive measures (comfort, warmth, rest). Consult a doctor and/or the nearest Poison Control Centre for all exposures. Some first aid procedures recommended above require advanced first aid training. Protocols for undertaking advanced procedures must be developed in consultation with a doctor and routinely reviewed. All first aid procedures should be periodically reviewed by a doctor familiar with the material and its conditions of use in the workplace.</p> <p>*****</p>	
<i>Most Important Symptoms And Effects, acute and Delayed</i>	
<i>Skin</i>	Burning of the skin instantly or shortly after straight on contact.
<i>Eyes</i>	Severe burning of the eyes and redness.
<i>Ingestion</i>	Will cause severe internal burns. DO NOT INDUCE VOMITING.

Section 5: Firefighting Measure

Extinguishing Media Suitable	Non-flammable. Use water spray to keep fire-exposed containers cool. Extinguish fire using agent suitable for surrounding fire. Use water in flooding quantities as fog. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use water spray to knock-down vapours.
Extinguishing media specific hazards arising from the product	Not Available
Special protective equipment and precaution for firefighters	<i>Protective clothing should be worn.</i>

Section 6: Accidental Release Measures

Personal precaution, Protection Equipment and Emergency procedures	Wear appropriated clothing and protective gear including and not limited to gloves, chemical resistant apron and face mask.
Environmental precautions	No data
Methods for Containment and Cleaning Up	Spill Precautions: Evacuate all downwind, unprotected personnel. Restrict access to area until completion of cleanup. Ensure clean-up is conducted by fully-trained personnel only. Wear adequate personal protective equipment. Ventilate area. Notify government occupational health and safety and environmental authorities. Clean-up: Do not touch spilled material. Keep upwind and out of low areas. Prevent material from entering sewers, waterways or confined spaces. Stop or reduce leak if it can be done without risk. Water fog or spray may be necessary to knock down vapours. Recover spilled hydrochloric acid if feasible. Contain spill with earth, sand, or absorbent material which does not react with spilled material. Small spills: Contain and soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Flush area with water. Do not get water inside containers. Contaminated absorbent material may pose the same hazards as the spilled product. Large spills: Contact fire and emergency services and supplier for advice.

Section 7: Handling And Storage

<p>Precautions for Safe Handling</p>	<p>SKIN CONTACT HAZARD and CORROSIVE to the eyes and skin. Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Consider using closed handling systems for processes involving this material. Do not use near welding operations, flames or hot surfaces. Do not use with incompatible materials such as oxidizing agents, reducing agents, metals, bases, sulfuric acid, perchloric acid and many more. Never add water to a corrosive. Always add corrosives to water. When mixing with water, stir small amounts in slowly. Use cold water to prevent excessive heat generation.</p>
<p>Conditions for Safe Storage</p>	<p>Store in a cool, dry, well-ventilated area, out of direct sunlight and away from heat sources. Keep quantity stored as small as possible. Drums should be vented when received and then at least weekly to relieve internal pressure. Store away from incompatible materials, such as oxidizing agents, reducing agents, bases and metals. See section 10 Incompatibilities - Materials to Avoid section for more information. Use corrosion-resistant structural materials and lighting and ventilation systems in the storage area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Post warning signs. Inspect periodically for damage or leaks. Consider leak detection system with an alarm. Provide raised sills or ramps at doorways or create a trench which drains to a safe location. Floors should not allow liquids to penetrate. Use the type of container recommended by the chemical manufacturer or supplier. Inspect all incoming containers to make sure they are properly labeled and not damaged. Store containers at a convenient height for handling, below eye level if possible. Avoid stacking. Keep containers tightly closed when not in use and when empty. Protect from damage. Keep empty containers in separate storage area. Empty containers may contain hazardous residues. Keep closed. Contain spills or leaks by storing in trays made from compatible materials. Keep absorbents for leaks and spills readily available.</p>

Section 8: Exposures Controls/Personal Protection

Components	CAS NO.	Mg/m3	PPM	Non-standard Units	Basis
Phosphoric Acid	7664-382	1.000000	-	TWA	Canada. British Columbia OEL
Hydrofluoric Acid	7664-39-3	-	0.5	-	-
Dodecyl alcohol	112-53-8	-	-	-	-
Glycol ether	111-76-2	97.000000	20.000000	-	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

Individual Protection Measures	Wear suitable suit protecting against chemical. Always practice good work place behaviour.
Eye/Face Protection	Face mask and eye protection is highly recommended when using this product. Contact lenses should never be worn; they may contribute to severe eye injury.
Skin Protection	RECOMMENDED (resistance to breakthrough longer than 8 hours): Butyl rubber, natural rubber, neoprene rubber, nitrile rubber, Viton(TM), Viton(TM)/Butyl rubber, Barrier (PE/PA/PE), Trelchem(TM) HPS, Trelchem(TM) VPS, Tychem(TM) SL (Saranex(TM)), Tychem(TM) CPF 3, Tychem(TM) F, Tychem(TM) BR/LV, Tychem(TM) Responder(TM), Tychem(TM) TK. RECOMMENDED (resistance to breakthrough longer than 4 hours): Polyvinyl chloride, Silver Shield/4H(TM) (polyethylene/ethylene vinyl alcohol). CAUTION use for short periods only (resistance to breakthrough within 1 to 4 hours): Polyethylene. NOT RECOMMENDED for use (resistance to breakthrough less than 1 hour): Polyvinyl alcohol. Polyethylene NOT RECOMMENDED for use (resistance to breakthrough less than 1 hour): Polyvinyl alcohol There is evidence that this material can cause serious skin injury (e.g., corrosion or skin absorption). Resistance of specific materials can vary from product to product. Breakthrough times are obtained under conditions of continuous contact, generally at room temperature. Evaluate

	resistance under conditions of use and maintain clothing carefully.
<i>Respiratory Protection</i>	Wearing a face mask is strongly recommended while using this product.

Section 9: Physical And Chemical Properties

Appearance	Liquid
Color	Blue
pH	1-3
Odor	<i>Pungent</i>
Odour Threshold	<i>No available</i>
Melting Point and Freezing Point	<i>No available</i>
Initial Boiling Point and Boiling Range:	Not available
Flash Point	Not applicable
Evaporation Rate	< 1
Flammability (solid, gas)	Non-flammable
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility in Water	Completely miscible
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	<i>No data</i>
Viscosity	Not available

Section 10: Stability And Reactivity

<i>Reactivity</i>	This product is stable under normal use and storage.
Chemical Stability	Stable, heat and contamination could cause decomposition.
Possibility of Hazardous Reactions	No data.
Conditions to Avoid	High temperatures, incompatibles.
Incompatible Materials	No Data
Hazardous Decomposition Products	Not available

Section 11: Toxicology Information

Likely Routes of Exposure:

Inhalation Skin Contact Eye Contact Ingestion

This chemical can be hazardous when inhaled and/or touched.

Skin Corrosion/Irritation	Corrosive! Avoid direct contact at all times.
Serious Eye Damage/Irritation	Corrosive! Avoid direct contact at all times.
STOT (Specific Target Organ Toxicity) – Single Exposure	No data.
Aspiration Hazard:	Severe exposure can result in pulmonary edema and corrosion of tissues in the nose and throat.
STOT (specific target organ toxicity)- repeated exposure	Prolonged exposure can cause erosion and discolouration of teeth and chronic inflammation of nose, throat, and airways. In general, long-term skin contact with low concentrations of corrosive materials can cause dry, red, cracked skin (dermatitis).
Respiratory and/or Skin Sensitization	Not available.
Carcinogenicity	Not known.
Reproductive Toxicity	Not available.
Development of Offspring	Not available.
Sexual Function and Fertility	Not available.
Effects on or via Lactation	Not available.
Germ Cell	Not available.
Mutagenicity	Not available.
Interactive Effects:	Not available.

Section 12: Ecology Information

Toxicity	Not available.
Mobility In Soil	Not available.
Other Adverse Effects	Not available.

Section 13: Disposal Considerations

Disposal Consideration	Dispose of product and containers in accordance with all federal, provincial and municipal regulations.
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Section 14: Transportation Information

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
TDG	3264	Corrosive SOL'N	(Phosphoric acid, Hydrofluoric acid)	8	II

Section 15: Regulatory Information

Safety, Health and Environmental Regulations

Workplace Classifications	<i>Not available</i>
SARA Title 3	<i>Not available</i>
TSCA status	<i>Not available</i>
WHMIS	Corrosive liquid. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR.
PROP 65(CA)	WARNING: This product may contain chemicals know to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16: Other Information

Date of latest revision 2020-10-05

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