ROYALPAK
1870 ALBION ROAD, UNIT 3
ETOBICOKE ON. M9W 5T2
CANADA
416-746-4226

PRODUCT: APEX G400Q **CODE: 4110**

SECTION 01: IDENTIFICATION

Supplier identifier..... RoyalPak
1870 Albion Road, Unit 3
Etobicoke ON. M9W 5T2
Canada
416-746-4226
Product identifier..... APEX G400Q
Product code..... 4110
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
Product use..... Cleaner and degreaser.

SECTION 02: HAZARD IDENTIFICATION

Hazard classification..... Skin Corrosion — Category 1. Serious Eye Damage — Category 1.
Signal word..... DANGER.
Hazard statement..... H314 Causes severe skin burns and eye damage.
Precautionary statements..... P260 Do not breathe mist/vapours/spray. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/eye protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P363 Wash contaminated clothing 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. P321 Specific treatment (see section 4 of SDS). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards..... None.
Supplemental Information..... Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Monoethanolamine	141-43-5	4-6
Alcohols, C12-15, ethoxylated	68131-39-5	1-1.5
Sodium metasilicate	6834-92-0	1-1.5
Sodium hydroxide	1310-73-2	0.5-0.8

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. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
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 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. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention immediately. Call a poison center or physician. Chemical burns must be treated promptly by a physician.
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..... Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous combustion products..... Carbon oxides. Nitrogen oxides (NOx). Harmful vapours.

Special protective equipment and precautions..... Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.

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. In a fire or if heated, a pressure increase will occur and the container may burst. Cool closed containers exposed to fire with water spray.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. No action shall be taken involving any personal risk or without suitable training.

Environmental precautions..... Do not empty into drains. 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 Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Notify the appropriate authorities as required.

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. Protect from sunlight. Keep containers tightly closed when not in use.

Materials to avoid..... Keep away from strong acids.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL		NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Monoethanolamine	3 ppm	6 ppm	3 ppm	6 ppm	3 ppm
Alcohols, C12-15, ethoxylated	not available	not available	not available	not available	not available
Sodium metasilicate	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)

Engineering controls..... Good general ventilation (typically 10 air changes per hour) should be used . Facilities storing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures

Eye/type..... Safety glasses with side-shields.

Gloves/type..... Wear chemical resistant protective gloves.

Respiratory/type..... None necessary under normal conditions of use. If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.

Hygiene measures..... Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes. Do not eat, drink, smoke or use cosmetics while working with this product.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.

Color..... red.

Odour..... floral.

Odour threshold..... not available.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

pH	13-13.5.
Melting point (ºC)	not applicable.
Freezing point (ºC)	0.
Initial boiling point (ºC)	100.
Flash point (ºC), 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	1.02.
Water solubility	soluble.
Solubility in other solvents	not available.
Partition coefficient — n-octanol/water	not available.
Auto ignition temperature (ºC)	> 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. React vigorously with acids.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to instructions. The product is chemically stable. Reacts with amines and ammonia to form explosively unstable compounds. May develop chlorine if mixed with acidic solutions. Contact with some reactive metals may produce flammable hydrogen gas. React vigorously with acids.
Conditions to avoid	Avoid heat and open flame. Exposure to sunlight. Do not mix with other chemicals.
Incompatible materials	Generates heat when mixed with acid .
Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Monoethanolamine	20 mg/l (inhalation - rat, 4 hours)	1,500 mg/kg (oral-rat); 1,025 mg/kg (dermal-rabbit)
Alcohols, C12-15, ethoxylated	not available	1,650-2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Sodium metasilicate	not available	1152 mg/kg (oral - rat); > 5,000 mg/kg (dermal -rabbit)
Sodium hydroxide	no data available	240 mg/kg (oral-rat); 1350 mg/kg (dermal, rabbit)

Routes of exposure

Inhalation	Inhalation of spray or mist may cause irritation of the respiratory tract.
Ingestion	Contact will likely cause burns with permanent scars to mouth, throat, stomach. Ingestion of significant amount will cause death.
Skin contact	Skin contact causes irritation and possible burns.
Eye contact	Contact can cause burns, severe corneal damage and permanent loss of vision.

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	Virtually nontoxic by inhalation.
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	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.

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SECTION 11: TOXICOLOGICAL INFORMATION

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..... No data available.
Bioaccumulative potential..... No data available.
Mobility in soil..... No data available.
Other adverse effects..... No applicable information 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..... UN1760 Corrosive liquids, n.o.s., (sodium metasilicate, monoethanolamine), Class 8, PGIII.

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
Preparation date..... AUG 21/2018