






G.K. Chemical Specialties Co. Inc.  
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## SAFETY DATA SHEET (SDS)

PRODUCT NAME: G.K. SPECIAL VANDAL MARK REMOVER	
HEALTH HAZARD RATING:	(2)- MODERATE HAZARD
FLAMMABILITY HAZARD RATING:	(3)- SERIOUS HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	H - (Splash goggles, Gloves, Synthetic apron, Vapor respirator)
HAZARD ALERT SIGN:	   GHS02                      GHS08                      GHS07

<b>SECTION 1 – IDENTIFICATION</b>	
<b>PRODUCT IDENTIFIER</b>	
PRODUCT NAME	G.K. SPECIAL VANDAL MARK REMOVER
MANUFACTURER'S NAME AND ADDRESS EMERGENCY PHONE NO.	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037 CHEMTREC( 24 HR EMERGENCY) 1-800-424-9300 International CHEMTREC: 1-703-527-3887
SUPPLIER'S NAME AND ADDRESS EMERGENCY PHONE NO.	
CHEMICAL NAME	NOT APPLICABLE
CHEMICAL FAMILY	MIXTURE OF SOLVENTS AND SURFACTANTS
TRADE NAME AND SYNONYMS	NOT APPLICABLE
MATERIAL USE	INDUSTRIAL, COMMERCIAL AND INSTITUTIONAL CLEANING

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m<sup>3</sup> for a normal working day or at any time for some materials.

"C.A.S REG. No." means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

"LC 50" means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LD 50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

## SECTION 2 – HAZARD IDENTIFICATION

Dangerous Goods- WHMIS: CLASS B, Div. 2, CLASS D, Div.2B  
**OSHA HAZARDS:** Flammable liquid, Target Organ Effect, Irritant  
Target Organs: Nerves, Kidney, Cardiovascular system, Gastrointestinal tract, Liver.  
**Signal Words: Danger.**

### GHS CLASSIFICATION

Flammable liquids- Category 2  
Acute toxicity–Inhalation (vapors)- Category 4  
Acute toxicity-Oral–Category 4  
Skin corrosion / irritation- Category 2  
Serious eye damage/ eye irritation - Category 2b  
Carcinogenicity- Category 2  
Reproductive toxicity- Category 2  
Specific target organ toxicity- single exposure (Narcotic effects)- Category 3.  
Specific target organ toxicity, single exposure (respiratory)- Category 3  
Aspiration hazard – Category 1



GHS Label Elements, including precautionary statements: Hazard Statements:

### HAZARD STATEMENTS

H226- Extremely flammable liquid and vapor  
H304- May be fatal if swallowed and enters airways  
H316- Causes skin irritation  
H319- Causes serious eye irritation  
H335- May cause respiratory irritation  
H336- May cause drowsiness or dizziness  
H302-Harmful if swallowed  
H351- Suspected of causing cancer  
H373- May cause damage to organs through prolonged or repeated exposure



### PREVENTION (see also section 4 –First aid and measures)

P210- Keep away from heat/sparks/open flames/hot surfaces  
P261- Avoid breathing dust/fumes/gas/mist/vapors/spray  
P280- Wear protective gloves / protective clothing / eye protection / face protection  
P271- Use only outdoors or in a well-ventilated area  
P264- Wash skin thoroughly after handling  
P242- Use only non-sparking tools.  
P243- Take precautionary measures against static discharge  
P405- Store locked up  
P233- Keep container tightly closed.  
P202- Do not handle until all safety precautions have been read and understood.



### RESPONSE

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes: Remove contact lenses if present and easy to do so. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/attention  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P301 + P310; IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower  
P370 + 378: In case of fire, use dry chemical to extinguish

	<p><b>POTENTIAL HEALTH EFFECTS</b></p> <p><b>EYES:</b> Causes serious eye irritation</p> <p><b>INHALATION:</b> May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Can cause irritation of mucous membranes and central nervous system depression. Aspiration into lungs may cause pneumonia or death</p> <p><b>SKIN:</b> May be harmful if absorbed through skin. Causes skin irritation</p> <p><b>INGESTION:</b> May be harmful if swallowed</p>
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<b>SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>				
<b>HAZARDOUS INGREDIENTS</b>	<b>APPROXIMATE CONCENTRATION %</b>	<b>C.A.S., N.A. OR U.N. NUMBERS</b>	<b>LD50 {SPECIFY SPECIES &amp; ROUTE}</b>	<b>LC 50 {SPECIFY SPECIES &amp; ROUTE}</b>
Xylenes (o-,m-, p- isomers)	25 - 35	1330-20-7	Oral (Rat): 3,253mg/kg Dermal(Rabbit): 12,180mg/kg	ACGIH TLV-TWA 100ppm (435mg/m <sup>3</sup> )
Ethylbenzene	3 - 7	100-41-4	Oral (Rat): > 3,500 mg/kg Dermal (Rabbit): >2,000 mg/kg	ACGIH TLV-TWA 20 ppm (8 h)
n-Butyl Acetate	15 - 20	123-86-4	Oral (Rat): 10,700 mg/kg Dermal (Rabbit): >5,000mg/kg	LC50 (Rat) inhal. >6,867 ppm 4 h
Methyl Isobutyl Ketone	25 – 35	108-10-1	Oral (Rat): 1,600 mg/kg Dermal (Rabbit): >3,000mg/kg	ACGIH TLV-TWA 20 ppm (8 h)
Isopropyl Alcohol	10 – 15	67-63-0	Oral (Rat): 5,045 mg/kg Dermal (Rabbit): 12,800mg/kg	LC50 (Rat) inhal. 16,000 ppm, 8 h
(R)-p-Menth-1,8diene	10 – 15	5989-27-5	Oral (Rat): 4,400 mg/kg Dermal (Rabbit): >5,000mg/kg	ACGIH TLV- TWA 30 ppm, 8 h
2-Butoxyethanol	3 – 7	111-76-2	Oral (Rat): 1,300 mg/kg Dermal (Rabbit): >5,000mg/kg	ACGIH TLV-TWA 20 ppm. 8 h
Alcohols, C9-C11, Ethoxylated	1 – 3	68439-46-3	Oral (Rat): 1,400 mg/kg Dermal (Rabbit): >5,000mg/kg	
Isopropylamine Alkyl aryl Sulfonate	1 - 3	26264-05-1	Oral (Rat): 1,838 mg/kg Dermal (Rabbit): >2,000mg/kg	

<b>SECTION 4 – FIRST AID MEASURES</b>	
<b>SKIN CONTACT</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.
<b>EYE CONTACT</b>	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
<b>INHALATION</b>	For excessive inhalation remove casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary
<b>INGESTION</b>	May be harmful if swallowed. Do not induce vomiting. Seek immediate medical attention. Never

	give anything by mouth to an unconscious or convulsing person. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Danger of aspiration of vomit into the lungs can cause serious damage and chemical pneumonitis. Take a copy of the label and / or SDS with the victim to the health professional.
<b>NOTES TO PHYSICIAN</b>	<p>Treatment based on sound judgment of physician and individual reaction of patient.</p> <p><b>Eye contact:</b> Causes serious eye irritation. Symptoms may include stinging and tearing</p> <p><b>Inhalation:</b> Harmful if inhaled in excessive amounts. Can cause central nervous system depression. May cause drowsiness, dizziness, headache, nausea, breathing difficulties and other symptoms of central nervous system depression.</p> <p><b>Skin contact:</b> May cause skin irritation. (Redness, Swelling, Itching and Dryness)</p> <p><b>Ingestion:</b> Can cause central nervous system depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach. Can cause nausea, vomiting and diarrhea.</p> <p><b>ASPIRATION HAZARD:</b> Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.</p>

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>	
<b>FLASH POINT ( °C)</b>	<b>12° C (54° F) for Isopropyl alcohol (Lowest), 14° C (57° F) for Methyl Isobutyl Ketone 29° C (84.2° F) for n-Butyl Acetate, 30° C (86° F) for Xylene, 48° C (118.4° F) for (R)-p-Menth-1,8 diene</b>
<b>FLASH POINT METHOD</b>	Closed Cup or Tag
<b>AUTOIGNITION TEMPERATURE ( °C)</b>	<b>255° C (491° F) for (R)- p-Menth- 1,8 diene (Lowest), 399° C (750° F) for Isopropyl Alcohol, 425-464° C (797-867.2° F) for other solvents</b>
<b>UPPER FLAMMABLE LIMIT ( % VOL.)</b>	7 % for Xylene
<b>LOWER FLAMMABLE LIMIT ( % VOL. )</b>	1 % for xylene
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Carbon Dioxide ( CO <sub>2</sub> ), Carbon monoxide, Oxides of citrus terpenes
<b>UNUSUAL FIRE/ EXPLOSION HAZARDS</b>	Highly flammable liquid and vapors (Category 2). Explosive in presence of open flames, sparks, or heat. Containers can rupture and explode under fire conditions due to pressure and vapor buildup. Heated vapors may form explosive mixture with air. Vapors may travel across the ground and reach an ignition source.
<b>SENSITIVITY TO MECHANICAL IMPACT</b>	yes
<b>SENSITIVITY TO STATIC DISCHARGE</b>	yes
<b>EXTINGUISHING MEDIA</b>	Water fog, Alcohol-resistant foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire. Do not use a solid water stream as it may scatter and spread fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment. Vapor may travel considerable distance to source of ignition and flash back. Cool exposed containers with water spray.

<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>LEAK AND SPILL PROCEDURE</b>	<p>Stop leak and ventilate the area. Avoid breathing mist or vapours. Eliminate source of ignition. Use only non-sparking tools and equipment in the clean-up process. Move containers from spill area if safe to do so. Absorb spill with vermiculite or other noncombustible absorbent material. Place in a suitable container (with lid tightly covered) for disposal. Solvent soaked materials may spontaneously combust.</p> <p>For large spills, dike spill, recover free liquid, collect with an electrically protected</p>

	vacuum cleaner or by wet-brushing. Use absorbent material to dry area. Put all material into appropriate waste containers. Rinse with water. Avoid contaminating ground and surface water.
<b>ENVIRONMENTAL PRECAUTIONARY</b>	Prevent entry into sewers or streams. Toxic to aquatic life with long lasting effects. Any release to the environment may be subject to federal or local reporting requirements.
<b>PERSONAL PRECAUTIONARY MEASURES</b>	Wear protective clothing during cleanup. See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Restrict access to area until completion of clean-up.

<b>SECTION 7 – HANDLING AND STORAGE</b>	
<b>HANDLING PROCETURES</b>	<p>Avoid contact with eyes. Avoid ingestion. Do not breathe vapors. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear personal protective equipment appropriate to task. Use good industrial hygiene practices in handling this product. Keep container closed when not in use. Take measure to prevent the buildup of electrostatic charge. Use only non-sparking tools. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating. Launder contaminated clothing prior to reuse. Do not cut, grind, weld or drill on or near containers.</p> <p><b>CAUTION: Cloth or paper soaked in this product may undergo spontaneous ignition. Never discard wiping cloths soaked in this product carelessly. Do not put wet cloth or paper in a garbage bag or garbage container. Dry carefully before discarding.</b></p>
<b>STORAGE NEEDS</b>	Keep container tightly closed. Store in a cool area. Keep in the original container or an approved alternative. Store and use away from heat, sparks, open flame or any other ignition source. Store containers carefully and prevent leakage. Store separate from oxidizing materials.

<b>SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>VENTILATION REQUIREMENTS</b>	<p>For outdoors use no critical hazards. For indoor use good ventilation is recommended. Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering- STOP- ventilation is inadequate. Leave area immediately. When the following figures listed are exceeded provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective.</p> <p><b>Occupational exposure limits</b>  For <b>XYLENES</b>: ACGIH TLV (United States, 4/2014)  TWA: 100 ppm (435 mg / m<sup>3</sup>). STEL: 150ppm 15 minutes (651 mg/m<sup>3</sup>). NIOSH IDLE (immediate danger): 900 ppm (3900 mg/ m<sup>3</sup>).  <b>OSHA PEL (United states, 2/2013)</b> TWA: 100 ppm 8 hours (435 mg/m<sup>3</sup>)</p> <p>For <b>Ethylbenzene</b>: ACGIH TLV (United States, 4/2014) TWA: 20 ppm for 8 hours.  <b>OSHA PEL (United States, 2/2013)</b>: TWA: 100 ppm 8 hours (435 mg/m<sup>3</sup>)</p> <p>For <b>n-Butyl Acetate</b>: ACGIH TLV TWA: 150 ppm (710 mg/m<sup>3</sup>), STEL: 200 ppm (946 mg/m<sup>3</sup>). OSHA PEL: 150 ppm (710 mg/m<sup>3</sup>).</p>

	<p>For <b>Methyl Isobutyl Ketone</b>: ACGIH TLV TWA: 20 ppm (82 mg/m<sup>3</sup>), STEL: 75 ppm (308 mg/m<sup>3</sup>). OSHA PEL: 100 ppm (410 mg/m<sup>3</sup>).</p> <p>For <b>Isopropyl Alcohol</b>: ACGIH TLV TWA: 200 ppm (492 mg/m<sup>3</sup>), STEL: 500ppm (1225 mg/m<sup>3</sup>).</p> <p>For <b>(R)-p-Menth-1,8 diene</b>: ACGIH TLV-TWA: 30ppm (167 mg/m<sup>3</sup>).</p> <p>For <b>2-Butoxyethanol</b>: ACGIH TLV- TWA: 20 ppm (96.7 mg/m<sup>3</sup>). OSHA- TWA: 50 ppm (240 mg/m<sup>3</sup>), NIOSH IDLE (immediate danger): 700 ppm (3384 mg/m<sup>3</sup>)</p> <p>TWA (Threshold Limit Value over 8 hours of work), STEL (Short Term Exposure)</p>
<b>PROTECTIVE EQUIPMENT</b>	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the condition of use.
<b>EYE/TYPE</b>	Splash goggles, safety glasses or face shields are recommended to safeguard against potential eye contact, irritation, or injury.
<b>RESPIRATORY/TYPE</b>	Approved/ certified vapor respirator. Any chemical cartridge respirator with organic vapor cartridges is recommended with up to 900 ppm Xylene.
<b>GLOVE/TYPE</b>	Nitrile, Butyl impervious gloves
<b>FOOTWEAR/TYPE</b>	Boots
<b>BODY/TYPE</b>	Protective clothing is required. Use impervious clothing (apron, coveralls). The selection of personal protective equipment will vary depending on the conditions of use.

<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>APPEARANCE – PHYSICAL STATE</b>	Clear liquid
<b>ODOUR</b>	Petroleum ester, ketone and citrus terpene
<b>ODOUR THRESHOLD (PPM)</b>	0.2 ppm
<b>PH</b>	Not applicable
<b>MELTING POINT ( °C)</b>	See freezing point
<b>BOILING POINT ( °C)</b>	82°C (180° F) INITIAL Boiling point for Isopropyl Alcohol ( the lowest)
<b>FREEZING POINT ( °C)</b>	-48°C (--54.4° F) for Xylene, other solvents -74 to -89° C (-101.2 to – 129.1° F )
<b>EVAPORATION RATE</b>	0.75 – 1.7 (n-Butyl Acetate=1)
<b>FLAMMABILITY</b>	Flammable
<b>FLASH POINT ( °C)</b>	12°C (54°F) for isopropyl alcohol (lowest)
<b>AUTO IGNITION TEMPERATURE</b>	255°C (491°F) for ( R)-p-Menth- 1,8diene (lowest)
<b>DECOMPOSITION TEMPERATURE</b>	Not available
<b>VAPOUR DENSITY</b>	(air= 1) 3.4 – 4.7
<b>VAPOUR PRESSURE</b>	@ 20°C(68° F): 1.98 – 31.2 mmHg
<b>SOLUBILITY</b>	Soluble in water
<b>VISCOSITY</b>	Thin liquid
<b>% VOLATILE BY VOLUME</b>	94.5 ±0.5 %
<b>SPECIFIC GRAVITY</b>	0..85 ± 0.02 gm / cm <sup>3</sup>

<b>SECTION 10 – STABILITY AND REACTIVITY</b>	
<b>REACTIVITY</b>	Not self-reactive, self-heating
<b>CHEMICAL STABILITY</b>	Stable
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	Under normal conditions of storage and use, hazardous reaction will not occur.
<b>CONDITIONS TO AVOID</b>	Keep away from heat, flame and sparks. Avoid incompatible materials. Do not allow vapors to accumulate in low or confined areas.
<b>INCOMPATIBLE MATERIALS</b>	Strong oxidizing agents. May attack some plastic materials
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Carbon Dioxide (CO <sub>2</sub> ), Carbon monoxide, Oxides of Citrus Terpenes.

<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>	
<b>TOXICITY EFFECTS ON ANIMALS</b>	<p><b>For Xylenes (o-,m-,p-isomers (1330-20-7)):</b> Acute Oral Toxicity LD50 (Rat): 3,253 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 12,180 mg/kg.</p> <p><b>For Ethylbenzene (100-41-4):</b> Acute Oral Toxicity LD50 (Rat): 3,500 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;2,000 mg/kg</p> <p><b>For n-Butyl Acetate (123-86-4):</b> Acute Oral Toxicity LD50 (Rat): 10,700 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt; 5,000 mg/kg.</p> <p><b>For Methyl Isobutyl Ketone (108-10-1):</b> Acute Oral Toxicity LD50 (Rat): 1,600 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt; 3,000 mg/kg. Confirmed animal carcinogen with unknown relevance to humans. Did not cause birth defects in laboratory animals.</p> <p><b>For Isopropyl Alcohol (67-63-0):</b> Acute Oral Toxicity LD50 (Rat): 5,045 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 12,800 mg/kg.</p> <p><b>For (R)-p-Menth-1,8 diene (5989-27-5):</b> Acute Oral Toxicity LD50 (Rat): 4,400 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;5,000 mg/kg</p> <p><b>For 2-Butoxyethanol (111-76-2):</b> Acute Oral Toxicity LD50 (Rat): 1,300 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;5,000 mg/kg.</p> <p><b>For Alcohols, C9-C11, Ethoxylated (68439-46-3):</b> Acute Oral Toxicity LD50 (Rat): 1,400 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;5,000 mg/kg.</p> <p><b>For Isopropylamine Alkyl aryl Sulfonate (26264-05-1):</b> Acute Oral Toxicity LD50 (Rat): 1,838 mg/kg. Acute Dermal Toxicity LD50 (Rabbit); &gt;2,000 mg/kg.</p>
<b>TOXIC EFFECTS ON HUMANS</b>	<p>Hazardous in case of ingestion or inhalation. Slightly hazardous in case of skin contact. <b>Skin</b> contact can cause redness, irritation and drying. Severity depends on the amount and duration of exposure. <b>Eyes:</b> Vapors may be irritating to the eyes. Liquid contact will cause stinging redness, swelling and tearing. <b>Inhalation:</b> Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing excessive amount of this product may cause central nervous system depression, intoxication, may cause drowsiness, headaches, dizziness. <b>Ingestion:</b> If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of this material into the lungs may result in damage or death.</p>
<b>CHRONIC EFFECTS ON HUMANS</b>	<p>Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause anemia, bone marrow, liver damage. Repeated or prolonged skin contact may cause redness, irritation, and scaling of the skin.</p>
<b>CARCINOGENICITY</b>	Ethylbenzene and Methyl Isobutyl Ketone are suspected of causing cancer
<b>TERATOGENICITY</b>	No evidence
<b>MUTAGENICITY</b>	No evidence
<b>REPRODUCTIVE EFFECTS</b>	Reproductive Toxicity-Category 2. Suspected of damaging the unborn child.



## SECTION 12 –ECOLOGICAL INFORMATION

### ECOTOXICITY DATA

Product expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. MOBILITY: Volatile material and will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

**For Xylenes (o-,m-,p- isomers (1330-20-7):** Acute Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 13.4 mg / L / 96 h. LC50, Rainbow trout: 8.2 mg /L/ 96 h. Acute Toxicity to aquatic invertebrates EC50, *Daphnia magna* (Water flea): 3.2 – 9.56 mg / L /48 h. Acute Toxicity to Algae EC50, Green algae: 3.2-4.9 mg /L/ 72h. Ingredient not readily Biodegradable. In air, Xylenes degrade by reacting with photochemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater. Little Bioconcentration is expected.

**For Ethylbenzene (100-41-4):** Acute Toxicity to fish, LC50, Rainbow trout (*Oncorhynchus mykiss*): 4.2 mg / L /96h. Acute Toxicity to aquatic invertebrates EC50, *Daphnia magna* (Water flea): 1.81 mg / L /48h. Acute Toxicity to Algae, EC50, Green algae: 3.6 mg / L / 96 h.

**For n-Butyl Acetate (123-86-4):** Acute Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 18 mg / L /96h. Acute Toxicity to aquatic invertebrates EC50, *Daphnia magna* (Water flea): 44 mg /L /48h. Acute Toxicity to Algae EC50, Green algae: 675 mg / L /96 h.

**For Methyl Isobutyl Ketone (108-10-1):** This ingredient is practically non-toxic to aquatic organisms on an acute basis. Acute Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 505-540 mg / L /96 h. LC50, *Salmo gairdneri*: 600 mg /L /96 h. LC50, *Danio rerio* (Zebra fish), static test: > 179 mg /L /96 h. Acute Toxicity to aquatic invertebrates, EC50, *Daphnia magna* (Water flea): 1,000 mg / L /24 h. Toxicity to Algae, EC50, *Desmodesmus subspicatus* (green algae): 980 mg / L /48 h. Ingredient readily biodegradable (84% 14 days).

**For Isopropyl Alcohol (67-63-0):** Acute Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 100,000 mg /L /96 h. The product itself and its products of degradation are not toxic. Ingredient readily BIODEGRADABLE.

**For (R)-p-Menth- 1,8 diene (5989-27-5):** Acute Aquatic Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 0.7 mg / L /96 h. Acute Toxicity to Aquatic invertebrates EC50, *Daphnia magna* (Water flea): 0.36 mg / L / 48 h. EC50, *Daphnia pulex*: 69.6 mg / L / 48h. Ingredient readily BIODEGRADABLE.

**For 2-Butoxyethanol (111-76-2):** Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg / L in most sensitive species tested). EC50, *Daphnia magna* (Water flea), static test: 1,550 mg / L / 48 h. Ingredient readily BIODEGRADABLE

**For Alcohols, C9-C11, Ethoxylated (68439-46-3):** Aquatic Toxicity to fish LC50, Fathead minnow (*Pimephales promelas*): 8.5 mg / L /96 h. Acute Toxicity to Aquatic invertebrates, ec50, *Daphnia magna* (Water flea): 5.3 mg / L /48 h. Ingredient readily BIODEGRADABLE.

	<b>For Isopropylamine Alkyl aryl Sulfonate (26264-05-1):</b> No data found
<b>BIODEGRADABILITY</b>	Not readily biodegradable for some ingredients
<b>PRODUCTS OF DEGRADATION</b>	No information found

<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL</b>	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
<b>INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING</b>	Suitable waste facility

<b>SECTION 14 – TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	1993
<b>UN PROPER SHIPPING NAME</b>	FLAMMABLE LIQUID, N.O.S.(mixture of Xylene, n-Butyl Acetate, Methyl Isobutyl Ketone, Isopropyl Alcohol)
<b>TRANSPORT HAZARD CLASS</b>	CLASS 3: Flammable liquid
<b>PACKAGING GROUP</b>	Pk: III
<b>ENVIRONMENTAL HAZARDS</b>	Marine pollutant
<b>TRANSPORT IN BULK, if applicable</b>	NOT AVAILABLE
<b>SPECIAL PRECAUTIONS</b>	Guide to Canadian transportation. Emergency Response Guidebook (ERG): # 128

<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>SAFETY HEALTH &amp; ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT</b>	U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt. Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.

<b>SECTION 16 – OTHER INFORMATION</b>	
<b>PREPARED BY:</b>	Gus Kaklamanos - Chemist
<b>TELEPHONE NO.:</b>	416-261-7182
<b>DATE OF THE LATEST REVISION OF SDS:</b>	October 2, 2017

**NOTE: A lot of the information provided in this SDS may refer to very large or special usage of the product. The basic purpose of this product is to be used as a vandal mark remover, where quantities stored and used at any time by various users are very small and no critical hazard is expected.**