




SAFETY COMPARISON CHART

		Castrol Super Clean	Chem-Pro Mean Green	CRC Complex Blue	Zep Z-Green	LPS Precision Clean	Loctite Natural Blue	RustOleum Industrial Pure Strength	SprayOn Tough Green
<u>BASE</u>	Aqueous	Aqueous/ Alkaline	Aqueous/ Alkaline	Aqueous/ Alkaline	Aqueous	Aqueous/ Alkaline	Aqueous/ Alkaline	Natural Terpene ("citrus")	Aqueous
<u>pH</u>	9.3 – 9.5	13	12.5 – 12.9	12	9.0 – 9.5	13.3	10.6	7.5 – 8.5	7.0 – 7.1
<u>NFPA HAZARD</u>	1 – Health	3 – Health 1 – Reactivity	2 – Health 1 – Reactivity	1 – Health	1 – Health	1 – Health	1 – Health	Class II Combustible Liquid	1 – Health
<u>VOC</u>	7.96 g/L <i>Crystal = 0 g/L</i>	N/G	N/G	N/G	N/G	N/G	7.8 g/L	N/G	N/G
<u>HANDLING:</u>									
<u>FIRE</u>	None	Wear full protective gear – SCBA	Firefighters to wear full protective clothing & breathing equipment	NIOSH respirator	Wear self-contained positive pressure breathing apparatus.	None	Hazardous product formed by fire: irritating organic vapors	Use water, dry hemical or carbon dioxide	Spray containers with water. Wear self-contained breathing apparatus.
<u>REACTIVITY</u>	None	Avoid strong oxidizers, strong acids & contact w/glass	No strong oxidizing agents	Avoid strong acids & oxidizers	No strong oxidizing agents	Avoid strong oxidizing agents	N/G	Avoid contact w/ strong oxidizers	No strong oxidizing agents.
<u>STORAGE</u>	Keep from freezing	Corrosive Material	N/G	Store in cool, dry area	Store in dry area. Keep out of reach of children.	N/G	N/G	N/G	Keep from freezing. Keep out of reach of children.
<u>SPILLS</u>	Simple Green will not harm sewage treatment micro- organisms. Prevent entry to open waterways.	Neutralize – contain spill, prevent entry to waterway and absorb.	Contain & dilute w/ plenty of water	Soak up material & dispose of in containers within regulations.	Liquid waste not permitted in landfill. Absorb spill on inert absorbent material.	Soak up material w/ absorbent material. Do not flush to sewer.	Dike large spills. Pump to containers or soak up w/ absorbent	Keep sources of ignition away from spill. Do not flush down sewer.	Remove all sources of ignition from spill. Do not rinse down sewer. Ventilate & remove w/ absorbent.

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<u>VENTILATION</u>	Ample natural ventilation (Local exhaust)	Air supplied respirator	General / local Exhaust	Adequate to maintain vapor concentration below TLV	No special measures required.	Local exhaust	Local exhaust	Provide ventilation in enclosed areas	Local exhaust ventilation
<u>PERSONAL PROTECTION:</u> EYES	None normally required. Avoid eye contact.	Safety goggles/ Safety shield	Safety goggles or chemist's goggles	Safety glasses	Use of tight-fitting safety glasses or goggles is strongly recommended	Safety goggles or glasses	Chemical splash goggles, face shield	Safety glasses	Safety glasses
SKIN	None required: Individuals with hypersensitive skin may want to wear gloves.	Impervious gloves & protective clothing	Chemical resistant apron & impervious clothing	Rubber gloves, boots & apron	Wearing neoprene or nitrile gloves is recommended when prolonged contact occurs	Use rubber gloves	Rubber gloves with cuff	Protective gloves	Solvent-resistant gloves
RESPIRATORY	None	NIOSH air supplied respirator	NIOSH respirator	NIOSH respirator above TLV	No special measures required.	Good ventilation	N/G	NIOSH organic vapor respirator	None required
<u>SYMPTOMS OF OVER-EXPOSURE:</u> EYES	Mild eye irritant.	Can cause severe irritation or burns. Avoid contact.	Can cause severe irritation / burns and possible blindness	May be damaging to eyes & skin. May cause painful irritation.	Immediately flush eyes w/ water for at least 15 min. Consult physician if irritation develops	Liquid will cause irritation of eyes & skin	Irritation of eyes	Eye irritant	Irrigate well for at least 15 minutes. If irritation persists, call physician.
SKIN	Non-toxic. Extensive use could cause drying.	Can cause severe irritation or burns. Avoid contact.	Prolonged contact can irritate or burn	(see above)	Flush contaminated skin w/ plenty of water. Consult physician if irritation develops	(see above)	Irritation of skin	Skin irritant	May cause skin irritation. Flush w/ water for at least 15 minutes.
INHALATION	Non-toxic. Mild, temporary irritation to nasal passages.	Remove from area of exposure. Call physician.	If breathing stops, get artificial respiration.	May be irritant to nose & throat. May cause headaches.	Move exposed person to fresh air. If irritation persists, get medical attention promptly.	Headache & dizziness	Nausea	Can cause drowsiness & headache	Avoid prolonged inhalation of vapor or mist.
INGESTION	Non-toxic. May cause some gastrointestinal upset (mild diarrhea) if enough is consumed.	Do not induce vomiting. Call physician.	Obtain attention immediately. Do not induce vomiting.	Possible liver/kidney injury, vomiting & diarrhea.	... do not induce vomiting. If victim is conscious, give plenty of water. Get medical attention.	Drink large amount of milk. Contact physician immediately.	Stomach distress, nausea or vomiting. Do not induce vomiting. Call physician.	If ingested, dilute w/ large amounts of water. Call physician. Apply artificial respiration if breathing has stopped.	If swallowed DO NOT INDUCE VOMITING. Give large quantities of water. Contact physician immediately.
<u>FLAMMABILITY</u>	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Class II Combustible Liquid	Non-flammable