



M520-2046 LEMON YELLOW

MATERIAL SAFETY DATA SHEET

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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 2 Flammability: 3 Reactivity 0

PRODUCT NAME: M520-2046 LEMON YELLOW

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 15/09/05
SUPERCEDES: None
MSDS NO. M520-2046

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
acetone	81-90	67-64-1	1000 ppm TWA; 2400 mg/m3 TWA
propylene glycol	1-10	57-55-6	No PEL established
ethanol	1-10	64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
propylene glycol monomethyl ether	1-10	107-98-2	No PEL established
ethyl lactate	1-10	97-64-3	No PEL established
isopropanol	<1	67-63-0	400 ppm TWA; 980 mg/m3 TWA
chromium	<1	7440-47-3	Chromium, sol. chromic, chromous salts (as Cr): 0.5 mg/m3 TWA; Chromium, metal and insoluble salts (as Cr): 1 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation., Ingestion., Skin contact., Eye contact.
Medical Conditions Aggravated: Eye disease. Liver disease. Skin disease including eczema and sensitization. Respiratory disease including asthma and bronchitis.

Immediate (Acute) Health Effects

Inhalation: Irritation may be delayed for several hours. Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Substance causes moderate skin irritation. Moderately irritating to the skin. Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact: Can cause moderate irritation. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. No hazard in normal industrial use.

Skin Absorption: No absorption hazard in normal industrial use.

Ingestion: Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Acetone	respiratory system, skin, eyes, CNS
Ethyl alcohol	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
Propylene glycol monomethyl ether	eyes, skin, respiratory system, CNS
Isopropyl alcohol	eyes, skin, respiratory system
Chromium metal	respiratory system, skin, eyes

Long-Term (Chronic) Health Effects:

Carcinogenicity: ACGIH. IARC. NIOSH. NTP. OSHA. None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive and Developmental Toxicity: No information available. Contains a substance(s) that is a possible reproductive system hazard based on high dose tests with laboratory animals.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Prolonged or repeated contact may cause irritation. May cause lingering effects but not likely to result in permanent damage if the exposure is eliminated. Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Eye Contact: Upon prolonged or repeated contact, can cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption: Upon prolonged or repeated exposure, no hazard in normal industrial use.

Target Organ Chronic Toxicity: Respiratory Tract. Eyes. Blood. Liver. Skin. Nervous System.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Remove to fresh air. Get medical attention. This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.
Eyes:	Flush immediately under running water for 15 minutes. If redness or irritation occurs, seek medical attention. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
Skin Contact:	Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion:	First aid is normally not required. No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	-4 (CALC.) °F
Upper Flammable/Explosive Limit, % in air:	12.8 @ 77° F
Lower Flammable/Explosive Limit, % in air:	2.5 @ 77° F

Fire Hazards: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

Extinguishing Media: Use alcohol resistant spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire Fighting Instructions: Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Spill Mitigation Procedures General Methods:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling:

Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Avoid contact with material. Keep in air-tight containers- material is hygroscopic. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Ground and bond containers when transferring material. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Do not store near combustible materials. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product. Facilities storing or using this material should be equipped with an eyewash and safety shower. Local exhaust. No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Protective Equipment

Respiratory Tract:

Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes:

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:	COLORED LIQUID
Odor:	STRONG SOLVENT
Solids Vol %:	0.5455
Solids Wt %:	0.8633
Material VOC lbs/gal:	0.9584
Material VOC gms/l:	115.0928
Coatings VOC lbs/gal:	7.3654
Coatings VOC gms/l:	884.522
Weight per gallon lbs:	6.8124

VOC data per US EPA guidelines. State and local variations may apply.

X. STABILITY AND REACTIVITY

Stability Information:	Stable. Normally stable. Keep away from heat, sparks and flame.
Conditions to Avoid:	Avoid: heat, sparks, flame and oxidizing agents. Contact with water. None known.
Chemical Incompatibility:	Strong oxidizing agents. Strong acids. Acids. Strong reducing agents. Water.
Hazardous Polymerization:	Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat : 50100 mg/m ³ /8H; Inhalation LC50 Mouse : 44 gm/m ³ /4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
1,2-Propanediol	57-55-6	Oral LD50 Rat : 20 gm/kg; Oral LD50 Mouse : 22 gm/kg; Dermal LD50 Rabbit : 20800 mg/kg
Ethyl alcohol	64-17-5	Inhalation LC50 Rat : 20000 ppm/10H; Inhalation LC50 Mouse : 39 gm/m ³ /4H; Oral LD50 Rat : 7060 mg/kg; Oral LD50 Mouse : 3450 mg/kg
2-Propanol, 1-methoxy-	107-98-2	Inhalation LC50 Rat : 10000 ppm/5H; Oral LD50 Mouse : 11700 mg/kg; Dermal LD50 Rabbit : 13 gm/kg
Lactic acid, ethyl ester	97-64-3	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : 2500 mg/kg; Dermal LD50 Rabbit : >5 gm/kg
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients):	Keep out of waterways. This material is not expected to be harmful to the ecology.
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XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	The waste may be a listed and/or characteristic hazardous waste. Spent or discarded material is a hazardous waste. Spent or discarded material is not expected to be a hazardous waste.
Disposal Methods:	Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Potential EPA Waste Codes:	If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

Acetone	67-64-1	82.04 %
Chromium (total)	7440-47-3	0.00 %

XIV. TRANSPORTATION INFORMATION

DOT Paint, 3, UN 1263, II
See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	0.23
Chromium	SARA 313 Reportable:	7440-47-3	0.00
Ethyl alcohol	California Proposition 65 Developmental Toxicity:	64-17-5	4.64
acetone	New Jersey Right To Know:	67-64-1	82.04
propylene glycol	New Jersey Right To Know:	57-55-6	5.63
ethanol	New Jersey Right To Know:	64-17-5	4.64
propylene glycol monomethyl ether	New Jersey Right To Know:	107-98-2	1.84
ethyl lactate	New Jersey Right To Know:	97-64-3	1.33

XVI. ADDITIONAL INFORMATION

Other Information: IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.