

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this MSDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: BRUSH CLEANER
COMPANY IDENTITY: CHEMCENTRAL/LOS ANGELES
COMPANY ADDRESS: 13900 CARMENITA RD
COMPANY CITY: SANTAFE SPRINGS, CA 90670
COMPANY PHONE: 1-562-921-2100
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 25-30% METHYL ETHYL KETONE (78-93-3) [201-159-0],
20-30% MEDIUM ALIPHATIC SOLVENT NAPHTHA (*64742-88-7),
10-15% ACETONE (67-64-1) [200-662-2],
10-15% MIXED XYLENES (1330-20-7) [215-535-7],
0-10% ETHANOL (64-17-5) [200-578-6],
0-5% ETHYLBENZENE (100-41-4) [202-849-4],
0-5% METHANOL (67-56-1) [200-659-6],

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R12 Extremely flammable.
R41 Risk of serious damage to eyes.
R65 Harmful: may cause lung damage if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R39/25 Toxic: danger of very serious irreversible effects if swallowed.
R20/65 Harmful by inhalation, may cause lung damage if swallowed.

SAFETY STATEMENTS:

S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S29 Do not empty into drains.
S45 In case of accident, or if you fell unwell, seek medical advice immediately. (Show the label where possible).
S53 Avoid exposure - Obtain special instructions before use.
S24/25 Avoid contact with skin and eyes.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.

Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do not induce vomiting. Have patient lie down & keep warm. Vomiting may lead to pneumonitis, which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire fighters & cool closed containers. Use fog nozzles if water is used.

Do not enter confined fire-space without full bunker gear.

(Helmet with face shield, bunker coats, gloves & rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Closed container may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES

Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

CHEC
PRODUCT IDENTITY: BRUSH CLEANER
MSDS #: 70022528

CHEMCENTRAL/LOS ANGELES
NEW MSDS DATE: 07/18/2000
SECTION 7. HANDLING AND STORAGE

DATE: 07/18/00
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HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.
Avoid contact with skin & eyes.
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.
Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.
Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids.
Keep container tightly closed
& upright when not in use to prevent leakage.
OSHA Class I B liquids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE CONTROL

Ventilate to keep vapors of this material below 95 ppm.
If over TLV, in accordance with 29 CFR 1910.134,
use NIOSH approved positive-pressure self-contained breathing apparatus.
Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.
Wash at end of each workshift & before eating, smoking or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE: Liquid, Water-White
ODOR: Ketone
BOILING RANGE: 62 96 197* C / 144 205 388*F (*=End Point)
AUTO IGNITION TEMPERATURE: 276 C / 530 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.8
FLASH POINT (TEST METHOD): -16 C / 2 F (TCC) (Lowest Component)
FLAMMABILITY CLASSIFICATION: Class I B
GRAVITY @ 60 F :
API: 43.9
SPECIFIC GRAVITY (Water=1) : .807
POUNDS/GALLON : 6.720
VOC'S (>0.44 Lbs/Sq In) : 71.4 Vol. % / 576.0 g/L / 4.797 Lbs/Gal
TOTAL VOC'S (TVOC) : 99.4 Vol. % / 801.9 g/L / 6.680 Lbs/Gal
NONEXEMPT VOC'S (CVOC) : 84.4 Vol. % / 683.1 g/L / 5.690 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS): 49.6 Vol. % / 400.0 g/L / 3.332 Lbs/Gal
VAPOR PRESSURE (mm of Hg) @20 C 72.6
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @20 C) 34.9
VAPOR DENSITY (air=1): 2.7
WATER ABSORPTION : Appreciable
REFRACTIVE INDEX : 1.410
MIXED ANILINE POINT (Acid Insol): 45 C / 113 F

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS#	TWA (OSHA)	TLV (ACGIH)	HAP
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	Yes
Medium Aliphatic Solvent Naphtha	*64742-88-7	500 ppm	100 ppm	No
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Mixed Xylenes	1330-20-7	100 ppm	100 ppm A4	Yes
Ethanol	64-17-5	1000 ppm	1000 ppm A4	No
Ethylbenzene	100-41-4	100 ppm	100 ppm A3	Yes
Methanol	67-56-1	200 ppm S	200 ppm S	Yes

In addition to EPA Hazardous Air Pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%):

Benzene, Toluene, Cumene, Polycyclic Aromatics

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Methyl Ethyl Ketone	78-93-3	None Known	300 ppm
Acetone	67-64-1	None Known	750 ppm
Mixed Xylenes	1330-20-7	None Known	150 ppm
Ethylbenzene	100-41-4	None Known	125 ppm
Methanol	67-56-1	None Known	250 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.
Absorption through skin increases exposure.
Primary irritation to eyes, redness, tearing, blurred vision.
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure
Can cause serious nervous system depression. Vapor harmful.
Breathing vapor can cause irritation.
Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGREGATED

CONDITIONS AGGREGATED

Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Potential Cancer Hazard based on tests with laboratory animals using Methanol.
Overexposure may create cancer risk.
Leukemia been reported in humans from Benzene.
This product may contain less than 18 ppm of Benzene.
Not considered hazardous in such low concentrations.
Absorption through skin may be harmful. Studies with laboratory animals
indicate this product can cause damage to fetus.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
Ethanol	67-56-1	1000.0 mg/kg (Man)

AQUATIC ANIMAL INFORMATION:

The most sensitive known marine group to any component of this product is: Goldfish 250 ppm or mg/L (24 hour exposure).
Keep out of sewers and natural water supplies.

MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is partially biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.

If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: RQ, Paint Related Material
(Contains: Methyl Ethyl Ketone, Mixed Xylenes)
,3,UN1263,PG-II

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: RQ, Paint Related Material
(Contains: Methyl Ethyl Ketone, Mixed Xylenes)
,3,UN1263,PG-II

IMO / IMDG RQ, Paint Related Material
(Contains: Methyl Ethyl Ketone, Mixed Xylenes)
,3,UN1263,PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 127

SECTION 15. REGULATORY INFORMATION

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer:

Methanol

SECTION 15. REGULATORY INFORMATION (CONTINUED)

EPA REGULATIONS:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire
All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning 7 Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS #	WT. % (REG. SECTION)	RQ (LBS)
*Methyl Ethyl Ketone	78-93-3	29 (311,312,313,RCRA)	5000
*Mixed Xylenes	1330-20-7	14 (311,312,313,RCRA)	5000
*Ethylbenzene	100-41-4	< 4 (311,312,313,RCRA)	5000
*Methanol	67-56-1	< 3 (311,312,313,RCRA)	None

IF > 679 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF XYLENE IS EXCEEDED.

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:
HEALTH (NFPA): 2
HEALTH (HMIS): 2
FLAMMABILITY: 3
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.