

IMMERSION CLEANER AND COLD PARTS CLEANER

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IMMERSION CLEANER AND COLD PARTS CLEANER

SYNONYMS: None.

PRODUCT CODE: 50, 699, 6861, 9699

PRODUCT USE: For cleaning carburetors and metal parts.
If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

24-HOUR EMERGENCY PHONE NUMBERS

These numbers are for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

MEDICAL:	TRANSPORTATION (SPILL):
1-800-752-7869	1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5400 Legacy Drive
Cluster II, Building 3
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then Enter 7500

MSDS FORM NUMBER: 82411

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PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL**		ACGIH TLV®		LD ^a	LC ^b
				TWA	STEL	TWA	STEL		
30-60	Solvent naphtha (petroleum), heavy arom.	Aromatic 150	64742-94-5	N.Av.	N.Av.	N.Av.	N.Av.	2 mL/kg ^c	590 mg/m ³ /4H
10-30	1-Methyl-2-pyrrolidinone	N-methyl-2-pyrrolidinone; NMP	872-50-4	N.Av.	N.Av.	N.Av.	N.Av.	3914 mg/kg (8 gm/kg) ^c	N.Av.
7-13	Propanol, 1(or 2)-(2-methoxymethylethoxy)-	Dipropylene glycol monomethyl ether	34590-94-8	N.Av.	N.Av.	200 ppm	150 ppm	5400 uL/kg (10 mL/kg) ^{ce}	N.Av.
5-10	Oleic acid	9-Octadecenoic acid (Z)-	112-80-1	5 mg/m ^{3d}	N.Av.	10 mg/m ^{3d}	N.Av.	74 gm/kg	N.Av.
3-7	Monoethanolamine	2-Amino-ethanol; MEA	141-43-5	3 ppm 6 mg/m ³	N.Av.	3 ppm	6 ppm	1720 mg/kg (1 mL/kg) ^c	N.Av.
3-6	Naphthalene	Naphthalin	91-20-3	10 ppm 50 mg/m ³	N.Av.	10 ppm	15 ppm	490 mg/kg (>20 gm/kg) ^e	>340 mg/m ³ /1H

**OSHA Final PEL value (enforceable). Some States have adopted more stringent values.

N.Av. = Not Available
^aOral-Rat LD₅₀

^bInhalation-Rat LC₅₀
^cSkin-Rabbit LD₅₀

^dBased on Vegetable oil mists
^ePotential for cutaneous (skin) absorption

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear and brown.

WARNING!

PHYSICAL HAZARDS

Combustible liquid and vapor.

HEALTH HAZARDS

May be harmful if inhaled.

May burn eyes.

May burn skin.

May be harmful if absorbed through skin.

Harmful or fatal if swallowed.

May irritate the respiratory tract (nose, throat, and lungs).

Contains material which may cause birth defects.

Suspect cancer hazard. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

Contains material which may cause central nervous system, liver, kidney, lung, blood cell, eye, skin, and heart damage.

ENVIRONMENTAL HAZARDS

Toxic to fish.

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POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: This product is severely irritating to the eyes and may cause eye burns.

SKIN: May cause irritation, swelling, blistering, and/or burns. Dipropylene glycol monomethyl ether and naphthalene may be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING): May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**, and/or heart injury. Monoethanolamine may burn mouth, throat, esophagus, and stomach. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation of monoethanolamine may cause inflammation and sores in the mouth; and bronchial and/or gastrointestinal disturbances. Prolonged or repeated inhalation of naphthalene may cause cataracts and/or corneal inflammation and sores. Prolonged or repeated exposure may have reproductive toxicity, teratogenic, or mutagenic effects. Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis); and/or burns. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis); and/or burns. Prolonged or repeated exposure may cause central nervous system, liver, kidney, lung, blood cell, eye, and skin damage.

CANCER INFORMATION: This product contains naphthalene which can cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Product is toxic to fish. See **SECTION 12: ECOLOGICAL INFORMATION**.

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SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING):	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
EYES:	If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.
SKIN:	Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.
INGESTION (SWALLOWING):	Do NOT induce vomiting. Immediately get medical attention. Call 1-800-752-7869 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.
NOTE TO PHYSICIANS:	Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-752-7869 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:	>140°F (60°C) Tag Closed Cup	
FLAMMABLE LIMITS IN AIR:	LOWER: 0.8 VOL% (approximately)	UPPER: 7 VOL% (approximately)
AUTOIGNITION TEMPERATURE:	829°F (443°C) (approximately)	
HAZARDOUS COMBUSTION PRODUCTS:	Decomposition and combustion materials may be toxic. Burning may produce nitrogen oxides, acid halides, carbon monoxide and unidentified organic compounds.	
CONDITIONS OF FLAMMABILITY:	Heat, sparks, or flame.	
EXTINGUISHING MEDIA:	Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.	

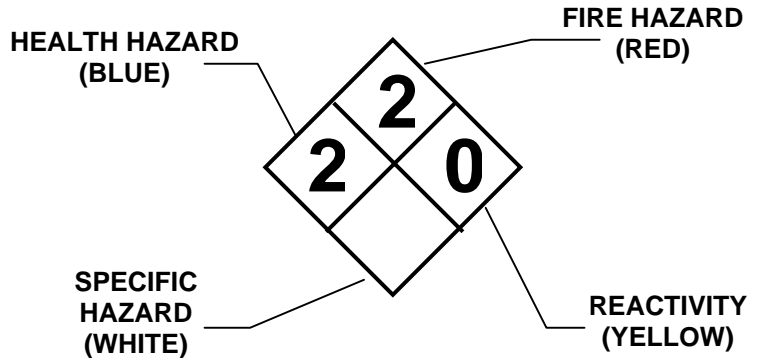
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NFPA 704

HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS:

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Vapor explosion hazard indoors, outdoors, or in sewers. Vapor may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

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SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke when using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified, full-faced, air-purifying respiratory protective equipment with organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

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EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, wear laminate (Ansell Edmont Barrier®, North Silver Shield®, Safety 4 4h®) or equivalent protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear and brown.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.95 (water = 1)

DENSITY: 7.9 LB/US gal (950 g/l)

VAPOR DENSITY: 4.4 (air = 1)

VAPOR PRESSURE: <0.4 mmHg at 68°F (20°C)

BOILING POINT: 340°F (171°C) (initial)

FREEZING/MELTING POINT: < 10°F (-12°C)

pH: 11

EVAPORATION RATE: 1 (butyl acetate = 1)

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SOLUBILITY IN WATER: Complete.

FLASH POINT: >140°F (60°C) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.8 VOL% (approximately)
UPPER: 7 VOL% (approximately)

AUTOIGNITION TEMPERATURE: 829°F (443°C) (approximately)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

INCOMPATIBILITY: Avoid acids, alkalis, oxidizing agents, reactive halogens, or reactive metals. Oleic acid can react with perchlorates or perchloric acid to form explosive products.

REACTIVITY: Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.

MUTAGENICITY: Monoethanolamine has demonstrated human effects of mutagenicity. Naphthalene has demonstrated animal effects of mutagenicity. N-Methyl-2-pyrrolidinone and oleic acid have demonstrated experimental effects of mutagenicity.

Based on best current information, the other components listed in **SECTION 2** are not mutagens.

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CARCINOGENICITY: Naphthalene is categorized by IARC as possibly carcinogenic to humans (Group 2B).

Based on best current information for the other components listed in **SECTION 2**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 3: CANCER INFORMATION** and **SECTION 15: CALIFORNIA**.

REPRODUCTIVE TOXICITY: Monoethanolamine and N-Methyl-2-pyrrolidinone have demonstrated experimental effects of reproductive toxicity.

Based on best current information, the other components listed in **SECTION 2** are not reproductive toxicants.

Also see **SECTION 15: CALIFORNIA**.

TERATOGENICITY: Monoethanolamine and naphthalene have demonstrated animal effects of teratogenicity.

Based on best current information, the other components listed in **SECTION 2** are not teratogens.

TOXICOLOGICALLY SYNERGISTIC PRODUCT(S): Based on best current information, there are no known toxicologically synergistic products associated with this product.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

Oleic acid (112-80-1)

Test & Species

96 Hr LC50 fathead minnow 205 mg/L

Conditions

Static

Monoethanolamine (141-43-5)

Test & Species

96 Hr LC50 goldfish 170.0 mg/L
96 Hr LC50 fathead minnow 2070 mg/L

Conditions

flow-through

Naphthalene (91-20-3)

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Test & Species		Conditions
96 Hr LC50 fathead minnow	6.14 mg/L	flow-through
96 Hr LC50 rainbow trout (juvenile)	1.60 mg/L	flow-through
96 Hr LC50 pink salmon (fry)	1.24 mg/L	Static

OCTANOL/WATER PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: 92 WT%; 7.3 LB/US gal; 874 g/l
As per 40 CFR Part 51.100(s)

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: **Shipping Name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (monoethanolamine)
UN/NA #: UN3267 **Hazard Class:** 8 **Packing Group:** III

TDG: **Shipping Name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (monoethanolamine)
UN/NA #: UN3267 **Hazard Class:** 8 **Packing Group:** III

EMERGENCY RESPONSE GUIDE NUMBER: 153
Reference *North American Emergency Response Guidebook*

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SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 302 AND 304: Based on the ingredient(s) listed in **SECTION 2**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: The following components are subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Material	CAS
1-Methyl-2-pyrrolidinone	872-50-4
Naphthalene	91-20-3

CERCLA: Based on the ingredient(s) listed in SECTION 2, this product contains the following "hazardous substance(s)" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Material	CAS	RQ
Naphthalene	91-20-3	100 lb (45.5 kg)

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

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CALIFORNIA: This product contains naphthalene CAS 91-20-3. This product may contain detectable amounts of arsenic CAS 7440-38-2, benzene CAS 71-43-2, cadmium CAS 7440-43-9, chromium CAS 7440-47-3, lead CAS 7439-92-1, methylene chloride CAS 75-09-2, perchloroethylene CAS 127-18-4, trichloroethylene CAS 79-01-6, dichlorobenzene, para- CAS 106-46-7, and beryllium CAS 7440-41-7. **WARNING:** These chemicals are known to the State of California to cause cancer.

This product contains N-Methyl-2-pyrrolidone CAS 872-50-4. This product may contain detectable amounts of arsenic CAS 7440-38-2, benzene CAS 71-43-2, cadmium CAS 7440-43-9, mercury CAS 7439-97-6, lead CAS 7439-92-1, and toluene CAS 108-88-3. **WARNING:** These chemicals are known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

WHMIS: Class B3 - Combustible Liquid
Class D2A - Chronic toxic effects.
Class E - Corrosive

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

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SECTION 16. OTHER INFORMATION

REVISION INFORMATION: Section 3: Changes to Emergency Overview

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.



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