

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/03/2017

Reviewed on 06/29/2017

1 Identification

- **Product identifier**
- **Trade name:** 1% Crude Standard, 40ul
- **Article number:** 165-66
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
OFI Testing Equipment Inc.
11302 Steeplecrest Dr.
Houston, TX 77065
(877) 837-8683
- **Information department:** techservices@ofite.com
- **Emergency telephone number:**
INFOTRAC USA - CANADA: 1-800-535-5053
INTERNATIONAL: 1-352-323-3500



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1B H350 May cause cancer.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Dichloromethane (Methylene Chloride)
- **Hazard statements**
Causes serious eye damage.
May cause cancer.
- **Precautionary statements**
Wear protective gloves / eye protection / face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF exposed or concerned: Get medical advice/attention.
Store in accordance with local/regional/national/international regulations.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Classification system:**· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

| | | |
|--------------|--------------------------------------|---------|
| CAS: 67-63-0 | Isopropanol | 99.009% |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | 0.99% |

· **Table of Nonhazardous Ingredients**

| | | |
|----------------|--------------------------------|---------|
| CAS: 8002-05-9 | Petroleum | 0.0002% |
| CAS: 108-88-3 | Toluene | 0.0001% |
| CAS: 1330-20-7 | Xylene (Xylol) | 0.0001% |
| CAS: 71-43-2 | Benzene | 0.0001% |
| CAS: 91-20-3 | Naphthalene | 0.0001% |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | 0.0001% |
| CAS: 7783-06-4 | Hydrogen Sulfide | 0.0001% |
| CAS: 109-66-0 | Pentane | 0.0001% |
| CAS: 106-97-8 | butane | 0.0001% |
| CAS: 110-54-3 | Hexane | 0.0001% |

4 First-aid measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** If symptoms persist consult doctor.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

| | | |
|----------------|--------------------------------------|-------------|
| CAS: 67-63-0 | Isopropanol | 400 ppm |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | 200 ppm |
| CAS: 8002-05-9 | Petroleum | 1,100 mg/m3 |
| CAS: 108-88-3 | Toluene | 67 ppm |
| CAS: 1330-20-7 | Xylene (Xylol) | 130 ppm |
| CAS: 71-43-2 | Benzene | 52 ppm |
| CAS: 91-20-3 | Naphthalene | 15 ppm |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | 33 ppm |
| CAS: 7783-06-4 | Hydrogen Sulfide | 0.51 ppm |
| CAS: 109-66-0 | Pentane | 3000* ppm |
| CAS: 106-97-8 | butane | 5500* ppm |
| CAS: 110-54-3 | Hexane | 260 ppm |

· PAC-2:

| | | |
|----------------|--------------------------------------|-------------|
| CAS: 67-63-0 | Isopropanol | 2000* ppm |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | 560 ppm |
| CAS: 8002-05-9 | Petroleum | 1,800 mg/m3 |
| CAS: 108-88-3 | Toluene | 560 ppm |
| CAS: 1330-20-7 | Xylene (Xylol) | 920* ppm |
| CAS: 71-43-2 | Benzene | 800 ppm |

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| | | |
|----------------|--------------------------------|--------------|
| CAS: 91-20-3 | Naphthalene | 83 ppm |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | 1100* ppm |
| CAS: 7783-06-4 | Hydrogen Sulfide | 27 ppm |
| CAS: 109-66-0 | Pentane | 33000*** ppm |
| CAS: 106-97-8 | butane | 17000** ppm |
| CAS: 110-54-3 | Hexane | 2900* ppm |

· **PAC-3:**

| | | |
|----------------|--------------------------------------|---------------|
| CAS: 67-63-0 | Isopropanol | 12000** ppm |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | 6,900 ppm |
| CAS: 8002-05-9 | Petroleum | 40,000 mg/m3 |
| CAS: 108-88-3 | Toluene | 3700* ppm |
| CAS: 1330-20-7 | Xylene (Xylol) | 2500* ppm |
| CAS: 71-43-2 | Benzene | 4000* ppm |
| CAS: 91-20-3 | Naphthalene | 500 ppm |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | 1800* ppm |
| CAS: 7783-06-4 | Hydrogen Sulfide | 50 ppm |
| CAS: 109-66-0 | Pentane | 200000*** ppm |
| CAS: 106-97-8 | butane | 53000*** ppm |
| CAS: 110-54-3 | Hexane | 8600** ppm |

7 Handling and storage

· **Handling:**· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** No special requirements.· **Information about storage in one common storage facility:** Not required.· **Further information about storage conditions:** Keep receptacle tightly sealed.· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:****CAS: 67-63-0 Isopropanol**PEL Long-term value: 980 mg/m³, 400 ppmREL Short-term value: 1225 mg/m³, 500 ppmLong-term value: 980 mg/m³, 400 ppm

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| | |
|--|--|
| TLV | Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI |
| CAS: 75-09-2 Dichloromethane (Methylene Chloride) | |
| PEL | Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052 |
| REL | See Pocket Guide App. A |
| TLV | Long-term value: 174 mg/m ³ , 50 ppm BEI |
| · Ingredients with biological limit values: | |
| CAS: 67-63-0 Isopropanol | |
| BEI | 40 mg/L LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific) |
| CAS: 75-09-2 Dichloromethane (Methylene Chloride) | |
| BEI | 0.3 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Dichloromethane (semi-quantitative) |

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

| | |
|-----------------|-----------------|
| Form: | Liquid |
| Color: | Light brown |
| Odor: | Characteristic |
| Odor threshold: | Not determined. |

· pH-value at 20 °C (68 °F): 0

· Change in condition

| | |
|------------------------------|--------------------|
| Melting point/Melting range: | -89.5 °C (-129 °F) |
| Boiling point/Boiling range: | 108 °C (226 °F) |

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 425 °C (797 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

| | |
|--------|----------|
| Lower: | 2 Vol % |
| Upper: | 12 Vol % |

· Vapor pressure at 20 °C (68 °F): 43 hPa (32 mm Hg)

· Density at 20 °C (68 °F): 0.80683 g/cm³ (6.733 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

| | |
|------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

| | |
|-------------------|-------------------------|
| Organic solvents: | 100.0 % |
| VOC content: | 99.0 % |
| | 798.8 g/l / 6.67 lb/gal |

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· **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimates)**

| | | |
|------------|----------|-----------------|
| Inhalative | LC50/4 h | 30.3 mg/l (rat) |
|------------|----------|-----------------|

CAS: 67-63-0 Isopropanol

| | | |
|------------|----------|----------------------|
| Oral | LD50 | 5045 mg/kg (rat) |
| Dermal | LD50 | 12800 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 30 mg/l (rat) |

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

| | | |
|--------------------|---------------------------|------------------------------|
| Oral | LD50 | 1600 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50/4 h | 52000 mg/l (rat) |
| Irritation of skin | Skin Corrosion/Irritation | Irritating (rabbit) (Draize) |
| Irritation of eyes | Eye damage/eye irritation | irritating (rabbit) |

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Strong irritant with the danger of severe eye injury.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

| | | |
|----------------|--------------------------------------|----|
| CAS: 67-63-0 | Isopropanol | 3 |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | 2B |
| CAS: 8002-05-9 | Petroleum | 3 |
| CAS: 108-88-3 | Toluene | 3 |
| CAS: 1330-20-7 | Xylene (Xylol) | 3 |
| CAS: 71-43-2 | Benzene | 1 |

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| | | |
|--|--------------------------------------|----|
| CAS: 91-20-3 | Naphthalene | 2B |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | 2B |
| · NTP (National Toxicology Program) | | |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | R |
| CAS: 71-43-2 | Benzene | K |
| CAS: 91-20-3 | Naphthalene | R |
| · OSHA-Ca (Occupational Safety & Health Administration) | | |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | |
| CAS: 71-43-2 | Benzene | |

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---------------|
| · UN-Number | |
| · DOT, ADN, IMDG, IATA | Not regulated |
| · UN proper shipping name | |
| · DOT, ADN, IMDG, IATA | Not regulated |

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- | | |
|--|-----------------|
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | Not regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not regulated |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

| | |
|----------------|------------------|
| CAS: 7783-06-4 | Hydrogen Sulfide |
|----------------|------------------|

· Section 313 (Specific toxic chemical listings):

| | |
|----------------|--------------------------------------|
| CAS: 67-63-0 | Isopropanol |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) |
| CAS: 108-88-3 | Toluene |
| CAS: 1330-20-7 | Xylene (Xylol) |
| CAS: 71-43-2 | Benzene |
| CAS: 91-20-3 | Naphthalene |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% |
| CAS: 7783-06-4 | Hydrogen Sulfide |
| CAS: 110-54-3 | Hexane |

· TSCA (Toxic Substances Control Act):

| |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

· Proposition 65

· Chemicals known to cause cancer:

| | |
|---------------|--------------------------------------|
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) |
| CAS: 71-43-2 | Benzene |
| CAS: 91-20-3 | Naphthalene |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% |

· Chemicals known to cause reproductive toxicity for females:

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· Chemicals known to cause reproductive toxicity for males:

| | |
|--------------|---------|
| CAS: 71-43-2 | Benzene |
|--------------|---------|

· Chemicals known to cause developmental toxicity:

| | |
|---------------|---------|
| CAS: 108-88-3 | Toluene |
|---------------|---------|

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CAS: 71-43-2 Benzene

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

| | | |
|----------------|--------------------------------------|--------|
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | L |
| CAS: 108-88-3 | Toluene | II |
| CAS: 1330-20-7 | Xylene (Xylol) | I |
| CAS: 71-43-2 | Benzene | A, K/L |
| CAS: 91-20-3 | Naphthalene | C, CBD |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | D |
| CAS: 7783-06-4 | Hydrogen Sulfide | I |
| CAS: 110-54-3 | Hexane | II |

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|----------------|--------------------------------------|----|
| CAS: 67-63-0 | Isopropanol | A4 |
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) | A3 |
| CAS: 108-88-3 | Toluene | A4 |
| CAS: 1330-20-7 | Xylene (Xylol) | A4 |
| CAS: 71-43-2 | Benzene | A1 |
| CAS: 91-20-3 | Naphthalene | A4 |
| CAS: 100-41-4 | Ethylbenzene, Anhydrous, 99.8% | A3 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | |
|--------------|--------------------------------------|
| CAS: 75-09-2 | Dichloromethane (Methylene Chloride) |
| CAS: 71-43-2 | Benzene |

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).· **Hazard pictograms**

GHS05 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

Dichloromethane (Methylene Chloride)

· **Hazard statements**

Causes serious eye damage.

May cause cancer.

· **Precautionary statements**

Wear protective gloves / eye protection / face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Store in accordance with local/regional/national/international regulations.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).
- **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:**
- **Date of preparation / last revision**
Revision 0.0 05/12/2016: Creation date for SDS.STN
Revision 0.1, 07-03-2017: Reviewed SDS. STN
07/03/2017 / -
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Carc. 1B: Carcinogenicity – Category 1B

US