

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Sludge Gun Cleaning Fluid
Product code : H-SG16

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaning solvent

1.3. Supplier

Distributor

Hydro-Balance Corporation
P.O. Box 1318, Lewisville, TX 75067
USA
T 972-394-9422, 800-527-5166 - F 972-394-6755
Info@HydroBalance.com - www.HydroBalance.com

Manufacturer

North American Research Corporation
519 Huffines Blvd., Lewisville, TX 75056
P.O. Box 1318, Lewisville, TX 75067
USA
T 972-492-1800, 800-527-7520 - F 972-394-6755
Info@narcochem.com - www.narcochem.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call Infotrac 24hr/day 7days/week
Within USA and Canada: 1-800-535-5053
Outside USA and Canada: 1-352-323-3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a poison center or doctor if you feel unwell.

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P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national and international regulations

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Not classified as PBT or vPvB.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
1,2-dichloroethylene	CAS-No.: 156-60-5	40 – 60
1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether	CAS-No.: 406-78-0	40 – 60

If the specific chemical identity and/or exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : Irritation to eyes.
Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sludge Gun Cleaning Fluid	
No additional information available	
1,2-dichloroethylene (156-60-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,2-Dichloroethylene, trans-isomer
ACGIH OEL TWA	200 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; eye irr
Regulatory reference	ACGIH 2024
1,1,1,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: clear
Odor	: slight Ether-like odour
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 38 °C
Flash point	: The product is not flammable.
Relative evaporation rate (butyl acetate=1)	: 0.9
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 65 kPa @ 25°C
Relative vapor density at 20°C	: > 1
Relative density	: No data available
Density	: 1.36 g/m ³ @ 25°C
Solubility	: Poorly soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.33 mm ² /s @ 22°C
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong bases. Alkali metals. Alkaline earth metals. Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Hydrogen fluoride.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

1,2-dichloroethylene (156-60-5)	
LD50 oral rat	7902 – 9939 mg/kg body weight (Equivalent or similar to OECD 420, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	96.943 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	7902 mg/kg body weight
ATE US (vapors)	96.943 mg/l/4h
ATE US (dust, mist)	96.943 mg/l/4h

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)	
LD50 oral rat	2001 mg/kg
LD50 dermal rat	2001 mg/kg
LC50 Inhalation - Rat	24.8 mg/l
ATE US (oral)	2001 mg/kg body weight
ATE US (dermal)	2001 mg/kg body weight
ATE US (vapors)	24.8 mg/l/4h
ATE US (dust, mist)	24.8 mg/l/4h

Skin corrosion/irritation : Repeated or prolonged skin contact may cause dermatitis and defatting. May cause eczema

1,2-dichloroethylene (156-60-5)	
pH	No data available in the literature

Serious eye damage/irritation : May cause eye irritation

1,2-dichloroethylene (156-60-5)	
pH	No data available in the literature

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.

1,2-dichloroethylene (156-60-5)	
STOT-single exposure	May cause drowsiness or dizziness.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : 0.33 mm²/s @ 22°C

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1,2-dichloroethylene (156-60-5)	
Viscosity, kinematic	No data available in the literature
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: Irritation to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,2-dichloroethylene (156-60-5)	
LC50 - Fish [1]	135 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	220 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	50 – 79 mg/l (Algae, QSAR)
NOEC (chronic)	110000 mg/l 48 hours

12.2. Persistence and degradability

1,2-dichloroethylene (156-60-5)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

1,2-dichloroethylene (156-60-5)	
Partition coefficient n-octanol/water (Log Pow)	2.06 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

1,1,1,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)	
Partition coefficient n-octanol/water (Log Pow)	2.18

12.4. Mobility in soil

1,2-dichloroethylene (156-60-5)	
Surface tension	25 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.598 – 1.735 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

Other adverse effects : This product contains a substance or substances that will contribute to global warming.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

1,2-dichloroethylene	CAS-No. 156-60-5	40 – 60%
1,1,1,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether	CAS-No. 406-78-0	40 – 60%

1,2-dichloroethylene (156-60-5)

CERCLA RQ	1000 lb
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15.2. International regulations

CANADA

1,2-dichloroethylene (156-60-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

1,1,1,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

1,2-dichloroethylene (156-60-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

1,1,1,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
1,2-dichloroethylene(156-60-5)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Massachusetts - Right To Know List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: 06/07/2024

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Full text of H-phrases	
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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