

Masterchem Ester Oil Charge (2+2)

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 800-424-9300

Omega/Santech 1401 Valley View Lane, Suite #100 Irving, TX 75061

Emergency Phone: 972-812-7000

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 09/12/2014

Version:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier**

Product form: Mixture

Trade name: Masterchem Ester Oil Charge (2+2)

Product code: MT3026

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Oil Charge

Details of the supplier of the safety data sheet

SANTECH INDUSTRIES, INC. 1401 VALLEY VIEW LANE IRVING. TX 75061 T 817-589-1212

1.4. **Emergency telephone number**

: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) Emergency number

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

Liquefied gas H280

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

Hazard statements (GHS-US)

: Warning

: H280 - Contains gas under pressure; may explode if heated

Precautionary statements (GHS-US) : P410+P403 - Protect from sunlight. Store in a well-ventilated place

P251 - Pressurized container: Do not pierce or burn, even after use

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

23 Other hazards

Other hazards not contributing to the classification

: Contact with liquid may cause cold burns/frostbite. Contains gas under pressure; may explode if heated. May Cause frostbite in contact with skin. May Cause frostbite in contact with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning.

2.4. **Unknown acute toxicity (GHS-US)**

No data available

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SECTION 3: Composition/information on ingredients

3.1. **Substance**

Not applicable

3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
1,1,1,2-Tetrafluoroethane	(CAS No) 811-97-2	50 - 70	Liquefied gas, H280
Ester	(CAS No) Proprietary	30 - 50	Not classified
Proprietary Inhibitor Package	(CAS No) Proprietary	5 - 10	Not classified

SECTION 4: First aid measures

Description of first aid measures 4.1.

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Coughing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause Symptoms/injuries after inhalation

respiratory irritation. May cause irritation or asthma-like symptoms. May cause drowsiness or

dizziness.

Symptoms/injuries after skin contact : Blisters. Red skin. Itching.

Symptoms/injuries after eye contact May cause slight eye irritation . Irritation of the eye tissue. Inflammation/damage of the eye

tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture 5.2.

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : NFPA Aerosol Level 1.







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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the leak,

cut off the supply.

Methods for cleaning up : Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapor.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse. Wash affected areas

thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products: Strong bases. Strong acids.Incompatible materials: Sources of ignition. Direct sunlight.Storage area: Store in a well-ventilated place.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls Personal protective equipment

Hand protection Eye protection

Skin and body protection Respiratory protection Other information



: Local exhaust venilation, vent hoods.

: Gloves. Safety glasses. Avoid all unnecessary exposure.

: Wear protective gloves.

Chemical goggles or safety glasses.Wear suitable protective clothing.

: Wear appropriate mask.

Do not eat, drink or smoke during use.







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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Appearance : Liquid.

Color : Colourless to yellow.

Odor : Characteristic. Petroleum-like odour.

Odor threshold : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available

Flash point : > 149 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density : 0.99

Solubility : Insoluble in water. Log Pow : No data available Log Kow : No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidizing properties : No data available **Explosive limits** : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1,1,1,2-Tetrafluoroethane (811-97-2)

LC50 inhalation rat (mg/l) > 2000 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm) > 359300 ppm/4h (Rat; Literature study)

Skin corrosion/irritation : Not classified Not classified Serious eye damage/irritation Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : Coughing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

respiratory irritation. May cause irritation or asthma-like symptoms. May cause drowsiness or

dizziness.

Symptoms/injuries after skin contact : Blisters. Red skin. Itching.

Symptoms/injuries after eye contact : May cause slight eye irritation . Irritation of the eye tissue. Inflammation/damage of the eye

tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

1,1,1,2-Tetrafluoroethane (811-97-2)

LC50 fish 1 450 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)

EC50 Daphnia 1 980 mg/l (48 h; Daphnia magna)

12.2. Persistence and degradability

SANTECH ESTER OIL CHARGE 4 OZ.

Persistence and degradability Not established.

Ester (Proprietary)

Persistence and degradability Not established.

Proprietary Inhibitor Package (Proprietary)

Persistence and degradability Not established.

1,1,1,2-Tetrafluoroethane (811-97-2)

Persistence and degradability Not readily biodegradable in water.

12.3. Bioaccumulative potential

SANTECH ESTER OIL CHARGE 4 OZ.

Bioaccumulative potential Not established.

Ester (Proprietary)

Bioaccumulative potential Not established.

Proprietary Inhibitor Package (Proprietary)

Bioaccumulative potential Not established.

1,1,1,2-Tetrafluoroethane (811-97-2)

BCF other aquatic organisms 1 5 - 58 (Estimated value)

Log Pow 1.06 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)

Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

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SECTION 12: Ecological information continued

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1078, Refrigerant gases, n.o.s., 2.2, Limited Quantity ICAO/IATA (air): UN1078, Refrigerant gases, n.o.s., 2.2, Limited Quantity

IMO/IMDG (water): UN1078, Refrigerant gases, n.o.s. (1,1,1,2-tetrafluoroethane, Petroleum Distillates), 2.2

Special Provisions: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied

compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of

: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

this subchapter.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Refrigerant gases, n.o.s.

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the

applicable liquefied compressed gases are authorized to be transported in portable tanks in

accordance with the requirements of 173.313 of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304

DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

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SECTION 15: Regulatory information

15.1. US Federal regulations

SANTECH ESTER OIL CHARGE 4 OZ.

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Sudden release of pressure hazard

Delayed (chronic) health hazard

1,1,1,2-Tetrafluoroethane (811-97-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Sudden release of pressure hazard

Immediate (acute) health hazard

15.2. International regulations

CANADA

SANTECH ESTER OIL CHARGE 4 OZ.

WHMIS Classification Class A - Compressed Gas

1,1,1,2-Tetrafluoroethane (811-97-2)

WHMIS Classification Class A - Compressed Gas

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Liquefied gas Gases under pressure Liquefied gas

H280 Contains gas under pressure; may explode if heated

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard Physical : 1 Slight Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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