

Enviro-Safe Fusion

1	PRODUCT AND COMPANY IDENTIFICATION
----------	---

Product Identifier:	Enviro-Safe Fusion
SDS Number:	3402
Revision Date:	7/22/2021
Version:	3.0
Product Description:	Spray on PVC Glue
Supplier Details:	Enviro-Safe Refrigerants 400 Hanna Dr. Pekin, IL 61554
Contact:	Randy Price
Phone:	309-346-1110
Fax:	309-346-1237
Email:	info@es-refrigerants.com
Internet:	http://www.es-refrigerants.com/
Emergency:	CHEMTREC 1-800-424-9300

2	HAZARDS IDENTIFICATION
----------	-------------------------------

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

- Physical, Flammable Gases, 1
- Physical, Flammable Liquids, 2
- Physical, Gases Under Pressure, Compressed Gas
- Health, Acute toxicity, 3 Oral
- Health, Acute toxicity, 3 Dermal
- Health, Acute toxicity, 3 Inhalation
- Health, Specific target organ toxicity - Single exposure, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

- H220 - Extremely flammable gas
- H225 - Highly flammable liquid and vapour
- H280 - Contains gas under pressure; may explode if heated
- H301 - Toxic if swallowed
- H311 - Toxic in contact with skin
- H331 - Toxic if inhaled
- H370 - Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
- OSHA-H01 - May displace oxygen and cause rapid suffocation

GHS Precautionary Statements:

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P210 - Keep away from heat/sparks/open flames/hot surfaces.
- P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P280 - Wear protective gloves/ protective clothing.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician.
- P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P381 - In case of leakage, eliminate all ignition sources.
- P403 - Store in a well-ventilated place.

Enviro-Safe Fusion

P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
68476-85-7		Petroleum gases, liquefied
78-93-3		2-Butanone

4 FIRST AID MEASURES

- Inhalation:** If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.
- Skin Contact:** Irritation may result. Immediately wash with soap and water.
- Eye Contact:** Immediately flush with water, remove any contact lenses, continue flushing with water for at least fifteen minutes, then get medical attention.
- Ingestion:** This product is a gas, refer to the inhalation section.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry powder, foam, carbon dioxide

Self contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

6 ACCIDENTAL RELEASE MEASURES

Clean up: Use special care to avoid static electric charges. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe gas. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas and ventilate closed spaces before entering. Shut off ignition sources: keep flares, smoking or flames out of hazard area.

Small Spills: Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large Spills: Dike far ahead of spill for later disposal.

7 HANDLING AND STORAGE

Handling Precautions: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Storage Requirements: Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures. Store away from strong oxidizing agents, chlorine dioxide and/or static discharge.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Alarm detectors should be used when toxic gases may be released. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering - STOP - ventilation is inadequate. Leave area immediately and move to fresh air.

Enviro-Safe Fusion

Personal Protective Equipment:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Petroleum gases, liquefied cas#:(68476-85-7)

Gas mask. Protective goggles. Gloves. Protective clothing.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear working gloves when handling gas containers.

Eye Protection: Safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: use a NIOSH-approved self-contained breathing apparatus in oxygen deficient atmospheres.

Thermal hazard Protection: Wear cold insulating gloves.

2-Butanone cas#:(78-93-3)

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Petroleum gases, liquefied (68476-85-7)

USA ACGIH - ACGIH TWA (ppm): 1000ppm

USA NIOSH - NIOSH REL (TWA) (mg/m3): 1800mg/m3

USA NIOSH - NIOSH REL (TWA) (ppm): 1000ppm

USA IDLH - US IDLH (ppm): 2100ppm (10% LEL)

USA OSHA - OSHA PEL (TWA) (mg/m3): 1800mg/m3

USA OSHA - OSHA PEL (TWA) (ppm): 1000ppm

2-Butanone cas#:(78-93-3)

9	PHYSICAL AND CHEMICAL PROPERTIES
----------	---

Appearance:	No data available	Odor:	Characteristic ketone odor
Physical State:	Gas	Solubility:	No data available
Odor Threshold:	No data available	Freezing or Melting Point:	- 17.67 °C (- 286 °F)
Specific Gravity or Density:	0.53	Flash Point:	No data available
Viscosity:	No data available	Vapor Density:	No data available
Boiling Point:	- 37.8 °C (- 36.1 °F)	Autoignition Temperature:	674.44 C (1246 °F)
Partition Coefficient:	No data available	Upper Flammability Limit and Lower Flammability Limit:	9 % / 2.5 %
Vapor Pressure:	586.05 kPa (85 psi) @ 21.1 °C (70 °F)		
Potentia Hydrogenii:	No data available		

Enviro-Safe Fusion

Evaporation Rate: No data available
Decompression Temperature: No data available

10	STABILITY AND REACTIVITY
-----------	---------------------------------

Reactivity: Contains gas under pressure; may explode if heated. Vapor may ignite if exposed to static discharge.
Chemical Stability: Stable under recommended handling and storage conditions.
Conditions to Avoid Identification: Direct sunlight. Extremely high or low temperatures. Open flame, heat, sparks, or static discharge.
Materials to Avoid Identification: Incompatible with strong oxidizing agents, strong cusic, and hydrogen peroxide.
Hazardous Decomposition: Decomposition may produce carbon monocise and oxides of carbon.
Hazardous Polymerization: Carbon oxides.

11	TOXICOLOGICAL INFORMATION
-----------	----------------------------------

Petroleum gases, liquefied cas#(68476-85-7)

Information on Toxicology

Acute Toxicity: Not classified
 LC50 Inhalation Rat: 658mg/l/4h
 Petroleum Oil: > 2000 mg/kg
 LD 50 Oral Rat: > 2000 mg/kg
 LD50 Dermal Rat: > 2000 mg/kg
 LC50 Inhalation Rat: > 2000 mg/kg

Skin Corrosion/Irritation: Not classified
 Serious Eye Damage/Irritation: Not classified
 Respiratory or Skin Sensitiation: Not classified
 Germ Cell Mutagenicity: Not classified
 Carcinogenicity: Not classified
 Reproductive Toxicity: Not classified
 Specific Target Organ Toxicity (Single Exposure): Not classified
 Specific Target Organ Toxicity (Repeated Exposure): Not classified
 Aspiration Hazard: Not classified

2-Butanone cas#:(78-93-3)

Information on toxicological effects

Acute toxicity:
 Oral LD50 no data available
 Inhalation LC50
 Dermal LD50
 Other information on acute toxicity
 Skin corrosion/irritation: no data available
 Serious eye damage/eye irritation: Eyes: no data available
 Respiratory or skin sensitisation: no data available
 Germ cell mutagenicity: no data available
 Carcinogenicity:
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
 Reproductive toxicity: no data available
 Teratogenicity: no data available
 Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
 Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
 Aspiration hazard: no data available
 Potential health effects: Inhalation Toxic if inhaled. May cause respiratory tract irritation. Ingestion Toxic if swallowed. Skin Toxic if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.
 Signs and Symptoms of Exposure: Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion

Enviro-Safe Fusion

may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: Not available

12

ECOLOGICAL INFORMATION

Petroleum gases, liquefied cas#:(68476-85-7)

Information on Ecology

Toxicity: No additional information

Persistence and Degradability: No additional information available

Bioaccumulative Potential ---

Log Pow: < 1

Petroleum gases, liquefied (68476-85-7)

Log Pow: 2.3

Mobility in Soil: No additional information available

Other Adverse Effects: No additional information available

2-Butanone cas#:(78-93-3)

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13

DISPOSAL CONSIDERATIONS

Petroleum gases, liquefied cas#:(68476-85-7)

Information on Disposal

Waste Treatment Methods

Waste Disposal Recommendation: Dispose of waste in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Empty product containers may contain hazardous residue. Do not reuse empty containers without commercial cleaning or reconditioning.

2-Butanone cas#:(78-93-3)

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Enviro-Safe Fusion

14

TRANSPORT INFORMATION

In Accordance with ICAO/IATA/IMDG/DOT

14.1. In Accordance with DOT

Proper Shipping name: ID8000, Consumer commodity, 9

14.2. In Accordance with IMDG

Proper Shipping Name: Petroleum gases, liquefied

Hazard Class: 2

Identification Number: UN1075

Label Codes: 2.1

EmS-No. (Fire): F-D

EmS-No. (Spillage): S-U

14.3. In Accordance with IATA

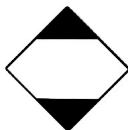
Proper Shipping Name: Petroleum gases, liquefied

Identification Number: UN1075

Hazard Class: 2

Label Codes: 2.1

ERG Code (IATA): 10L



15

REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[--%] Petroleum gases, liquefied (68476-85-7) MASS, OSHAWAC, PA, TSCA, TXAIR

[--%] RQ(5000LBS), 2-Butanone (78-93-3) CERCLA, HAP, HWRCRA, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend




- RQ = Reportable Quantity
- MASS = MA Massachusetts Hazardous Substances List
- OSHA = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- CERCLA = Superfund clean up substance
- HAP = Hazardous Air Pollutants
- HWRCRA = RCRA Hazardous Wastes
- NJHS = NJ Right-to-Know Hazardous Substances
- SARA313 = SARA 313 Title III Toxic Chemicals
- TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
- TXHWL = TX Hazardous Waste List

Enviro-Safe Fusion

16	OTHER INFORMATION
-----------	--------------------------

HMIS	
HEALTH	<input type="checkbox"/>
FLAMMABILITY	<input type="checkbox"/>
PHYSICAL HAZARD	<input type="checkbox"/>
PERSONAL PROTECTION	<input type="checkbox"/>

C

PPE




Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Author: Jeanette Akright
Publication Date: January 9, 2020

Revision Date: 7/22/2021