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Revision Date:

31 / 12 / 2020

Formosa Plastics Corporation, TAIWAN

Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name:

Vinyl Chloride

Synonyms:

Chloroethylene; Chloroethene; Vinyl Chloride Monomer; VCM

Manufacturer:

Formosa Plastics Corporation, Taiwan

No.100, Shuiguan Rd., Renwu Dist., Kaohsiung City 814, Taiwan (R.O.C.)

Telephone:

+886-7-371-1411(5391/5396)

Fax:

+886-7-371-8450

Emergency Contact:

+886-7-371-1411(5391/5396)

Product Use:

Various industrial uses.
Gas, liquid under pressure

Physical Description: Formula:

C₂H₃CI

2. HAZARD IDENTIFICATION

Emergency Overview:

DANGER!

- Extremely flammable gas.
- May cause cancer.
- Contains gas under pressure; may explode if heated.



3. PRODUCT INGREDIENTS

Components

Percent (%)

95-100

Vinyl Chloride CAS Number:

75-01-4

GHS Classification:

Flam. Gas 1, Carc. 1; H220, H280, H350

4. FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to

ensure adequate flushing. Get immediate medical attention.

Skin Contact:

Remove contaminated clothing and shoes. Wash affected skin area with soap and

water. Get immediate medical attention.

Inhalation:

Remove to fresh air. Get immediate medical attention.

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Ingestion:

If ingested, dilute swallowed material by drinking water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical

attention.

Other Instructions:

Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Flash Point:

-108 F (-78 °C) (Closed Cup)

Autoignition Temperature:

882 F (472 °C) at 760 mmHg

Flammable Limits, in Air:

Lower Explosive Limit (LEL):

3.6 %

Upper Explosive Limit (UEL):

33 %

Extinguishing Media:

Dry chemical, foam, or carbon dioxide. Water spray may be used to cool fire exposed containers, dilute spills to nonflammable mixtures, protect personnel

attempting to stop leak and disperse vapors.

Special Fire Fighting

Procedure:

In the event of a fire, wear a NIOSH (US) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Evacuate all

non-essential personnel from the danger area.

Unusual Fire and Explosion

Hazards:

Vapors are heavier than air and may travel to an ignition source and flash back.

Hazardous Combustion

Products

Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene and other irritating

and harmful gases and fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Restrict access to keep out unauthorized or unprotected personnel. Stay upwind of

spilled material. Wear appropriate personal protective equipment during all clean-up

activities. Avoid inhalation and direct contact.

Environmental Precautions: Keep spilled material away from sewage/drainage systems and waterways. This

product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See Section 15 for more information.

Methods for Clean-Up: All clean-up personnel must be properly trained. Remove incompatible materials

and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

7. HANDLING AND STORAGE

Handling: Keep away from heat/sparks/open flames/hot surfaces – No smoking. Use with

adequate ventilation. Wear proper personal protective equipment. Take precautions

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against static discharge. Transfer and store in properly bonded and grounded containers. Use spark/explosion-proof tools and equipment. Container headspace

may contain flammable vapors. Open containers carefully.

Storage:

Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment

for fires and spills readily available.

EXPOSURE CONTROLS & PERSONAL PROTECTION

Eye Protection:

Wear safety glasses with side shields, goggles or face shield.

Skin Protection:

Minimize contact with product. Wear gloves, apron and/or suitable long-sleeved

clothing.

Respiratory Protection:

An industrial hygiene risk assessment is required to determine the appropriate respiratory protection. Wear an approved supplied air respirator if there is a potential

for an uncontrolled release, exposure levels are not known, or in other

circumstances where air-purifying respirators may not provide adequate protection.

Engineering Controls:

Ensure adequate ventilation. Emergency eyewash and safety shower facilities

should be available in the immediate work area.

Required Work/Hygiene

Procedure:

Wash hands thoroughly after handling. Do not eat, drink or smoke in work area. If unusual exposures are expected, an industrial hygiene review of work practices,

engineering controls and personal protective equipment is recommended.

Exposure Guidelines:

OSHA PEL-TWA:

1 ppm 5 ppm

OSHA PEL-STEL: ACGIH TLV:

1 ppm

9. PHYSICAL / CHEMICAL PROPERTIES

Physical Form:

Gas, liquid under pressure

Color:

Clear

Odor:

Chloroform-like odor

Molecular Weight:

62.5

Boiling Point:

7 °F (-14 °C)

Solubility in Water:

0.1% @ 77 F (25 ℃) 0.91 @ 77 F (25 °C) (water = 1)

Specific Gravity:

2.15 (air = 1)

Vapor Density:

>1 (butyl acetate =1)

Evaporation Rate: Vapor Pressure:

2580 mmHg @ 68 F (20 ℃)

% Volatile:

100

pH:

Not Determined

Partition Coefficient log Pow:

Not Determined



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10. STABILITY & REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to Avoid:

Keep away from heat, sparks and open flames. Not compatible with strong oxidizers, strong bases, aluminum, magnesium, potassium, sodium, nitric acid and

ammonia.

Hazardous Decomposition:

No data available.

Hazardous Polymerization:

Polymerizes slowly in the presence of air, sunlight or oxygen. Polymerizes rapidly in

the presence of peroxides. Generates considerable heat.

11. TOXICOLOGY INFORMATION

Primary Route(s) of Exposure:

Eye, skin contact, inhalation

Potential Health Effects:

Eye Contact:

May cause eye irritation.

Skin Contact:

Contact may cause skin irritation and/or dermatitis.

Inhalation:

Inhalation may cause respiratory tract irritation, dizziness, headache, nausea,

drowsiness, difficulty breathing and other effects related to the target organs for this

toxicant

Ingestion:

Ingestion may cause dizziness, headache, nausea, drowsiness, difficulty breathing,

vomiting and other effects related to the target organs for this toxicant.

Target Organ Effects:

No data available.

Reproductive Effects:

No data available.

Carcinogenicity:

The International Agency for Research on Cancer has classified this material as

"Carcinogenic to Humans" (Group 1).

There is evidence that repeated high level exposure to vinyl chloride could cause angiosarcoma, a rare form of liver cancer, in humans. Possible connective and soft tissue cancers have been reported in epidemiological studies. Transplacental

carcinogenicity has been observed in some long-term animal studies.

Mutagenicity:

No data available.

Medical Conditions

Exposure may aggravate disorders of the eyes, skin, gastrointestinal tract,

Aggravated by Overexposure: respiratory system and liver.

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Method:

This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous

waste due to flammability.

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It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from, this product should be classified as hazardous waste.

U.S. RCRA Waste Number:

U043

14. TRANSPORTATION INFORMATION

Proper Shipping Name:

Vinyl Chloride, Stabilized

Hazard Label:

Flammable Gas

Hazard Class:

UN/NA Number: Packing Group:

UN 1086

None

EPA Reportable Quantity (RQ): **Marine Pollutant:**

1 lbs.

Emergency Response Guide:

No 116P

15. REGULATORY INFORMATION

U.N. GHS Classification & Labeling Information:

Classification:

Flammable Gas 1

Carcinogen 1

Compressed Gas

Signal Word:

DANGER

H Statements:

H220: Extremely flammable gas.

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

H350: May cause cancer.

P Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.

P240: Ground/bond container and receiving equipment.

P307+313: If exposed, get medical attention.

P281: Use personal protective equipment as required. P243: Take precautions against static discharge.

P273: Avoid release into the environment.

NFPA 704 Information:

Health Rating:

2

Flammability Rating:

4

Reactivity Rating:

1

Other Hazards:

Not applicable

U.S. Federal Regulatory Information:

EPA Clean Air Act:

Listed

EPA Clean Water Act:

Listed

TSCA:

Listed



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U.S. Federal Regulatory Information:

RCRA ID Number:

U043

CERCLA RQ:

1 lbs. None

SARA Title III § 302:

SARA Title III § 311/312:

Acute Health Hazard, Chronic Health Hazard, Fire Hazard, Sudden Release of

Pressure Hazard

SARA Title III § 313:

Listed

Container Labeling:

Containers of vinyl chloride shall be labeled with the following statement as required

by 29 CFR 1910.1017:

VINYL CHLORIDE

EXTREMEMLY FLAMMABLE GAS UNDER PRESSURE CANCER-SUSPECT AGENT

European Union Regulatory Information:

DSD/DPD Risk (R) Phrases:

R11: Highly flammable.

R45: May cause cancer.





DSD/DPD Hazard Symbol:

F+: Extremely Flammable; T: Toxic

DSD/DPD Safety (S) Phrases:

S24/25: Avoid any inhalation, contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves. S33: Take precautions against static discharge.

S61: Avoid release to the environment.

Canadian Regulatory Information:

WHMIS Category:

Class A

Class B, Division 1

Class D, Division 1, Subdivision B







Ingredient Disclosure List:

Listed (0.1%)

Domestic Substances List (DSL): Listed

16. OTHER INFORMATION

European Union Compliance:

This SDS conforms to regulations 1907/2006/EC (REACH). This product has been

classified in accordance with 67/548/EEC, 1999/45/EC, 1272/2008 (CLP) and

amendments.

Prepared By:

Formosa Plastics Corporation, TAIWAN

Revision History:

The version of this SDS was changed on DEC 31, 2014

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