



PT. SULFINDO ADIUSAHA

MATERIAL SAFETY DATA SHEET

VINYL CHLORIDE MONOMER

Disiapkan oleh SHE Manager	Disahkan oleh Collective GM	NO. DOKUMEN : TBL-QSE-SHE-006
		NO. REVISI : 1
		TGL. BERLAKU : 25 Juni 2020
		HALAMAN : 1/5

1. Identification of the substance/preparation and the company / undertaking :

Identification of the product

Product Name : Vinyl Chloride Monomer
Other Name : VCM, Chloroethylene, Chloroethene.

Manufacturer / Supplier identification

Company : PT. Sulfindo Adiusaha, Serang – Banten, Indonesia
Contact for information : Telp : **+6221 525 8300**
Fax : **+6221 525 8399**
Emergency phone no : **+62254 575 0035 ext 2203**

2. Information on ingredients

CAS-No : 0075-01-4
Form : Gas
Molar mass : 62.5
Molecular form : CH_2CHCl

3. Hazard identification :

Pictogram



Signal Word

DANGER

Hazard identification :

Skin : frostbite
Eye : if eye hit by liquid VCM, hence eye network will froze up because liquid VCM kept in low temperature.
Swallowed : no available
Inhaled : high concentrations cause dizziness, anesthesia, lung irritation.

Precautionary Statement :

Wear appropriate personal protection to prevent if contact with EDC with goggle, gloves (neoprene, nitrile), safety boot, SCBA and protective clothing.
Keep sparks, flames, and other sources of ignition away.
Do not handle until all safety precaution have been read and understood
Obtain special instruction before used
Avoid release to the environment



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NO. REVISI : 1

HALAMAN : 2/5

4. First aid measured

After inhalation

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. IMMEDIATELY call a physician and be prepared to transport the victim to a hospital even if no symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing.

After skin contact

Exposure of skin to compressed gases may result in freezing of the skin. Treatment for frostbite may be necessary. Remove the victim from the source of contamination. IMMEDIATELY wash affected areas gently with COLD water (and soap, if necessary) while removing and isolating all contaminated clothing. Dry carefully with clean, soft towels. If symptoms such as inflammation or irritation develop, IMMEDIATELY call a physician or go to a hospital for treatment.

After eye contact

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or medical center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if symptoms (such as redness or irritation) develop.

After swallowing

no available

5. Fire fighting measure :

Nature of material :

Highly flammable. Forms polymeric peroxides that are explosive

Suitable extinguishing media :

Dry chemical, CO₂.

Special risk :

Explosion

Special protective equipment for fire fighting :

Close source of gas stream.

Handwritten mark resembling the number '4'.



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NO. REVISI : 1

HALAMAN : 3/5

6. Accidental release measures :

Spilling and small leakage :

Immediately isolation spilled area . close with dry soil or dry sand, other materials which is not flammable in order not to happened evaporation. use clean equipments which do not generate fire (intrinsically safe). removing all source of fire and equip as maximum ventilate. personel handling have to use personal protective equipment suggested.

Spilling and big leakage :

Immediately isolation the leakage area. discontinuing leakage if possible. Keep sparks, flames, and other sources of ignition away. Keep material out of water sources and sewers. Attempt to stop leak if without undue personnel hazard. Use water spray to knock-down vapors removing flammable materials (wood, paper, oil etc). personel handling have to use personal protective equipment suggested.

Personal Protective Equipment used:

Chemical safety goggle, gloves (nitrile), boots, , gas mask, head cover and chemical suit.

7. Handling and storage :

Handling :

VCM have to always handled attentively from burning. prohibition order have to be attached to take care of open material and to eliminated for flame source / ignition source.

Prevention to exposure :

Use personal protective equipment dan enough ventilation.

Storage :

Suitable pressure tank / pressure containers.

Precaution to detonation and burning :

Keep away from flame / ingition source.

Requirements for storage rooms and containers :

Location have to awake better or do not cause environmental contaminated.

8. Exposure control / personal protection :

Technical control :

Adequate ventilation.

Personal protective equipment :

Wear appropriate personal protection to prevent if contact with the liquid with goggles, safety helmet, gas masker, gloves and chemical suit.



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HALAMAN : 4/5

9. Physical and chemical properties :

	Clear chromatic dilution, (there is gas form), burning, poisonous and corrosive gas, stonger than HCl.
Odor	smelling beloved and refinement.
Colour	clear chromatic.
pH value	7
Melting temperature	-245° F
Boiling temperature	lower 7.0° F at 760 mm
Ignition temperature	upper 882° F
Flash point	-110° F
Explosion limit	lower 3.6%
	upper 26.4 %
vapour pressure	3877.50 mm Hg
Specific gravity at 4 °C	0.969
Solubility in water	Slightly soluble
Density	56.71 lb/cuft

10. Stability and reactivity

Reactivity :

Reaction with polymeritation catalyst.

Stability :

Stable

Condition to be avoided :

Keep away all type source of fire.

Substances to be avoided :

Oxygen, moisture, inisiator polymeritation, copper, aluminium.

Hazardous decomposition products

Hydrogen Chloride, Carbon Monoxide, and Phosgene.

Polymeritation hazard:

Do not desire by usage below/under normal condition.

11. Toxicological information :

Threshold limit value :

After eye contact : if eye hit by dilution of VCM can cause hit network become frost because VCM kept in low temperature.

LD 50, rats, frequency 4hr/d 5.6 mg/kg.day 100% death (feron et al. 1981)

LC 50, rats, 30 min, 300000 ppm (5/5 death) (Mastromatteo et al. 1980)



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HALAMAN : 5/5

Short explanation (acute):

Cause lung irritation, weaken and awareness.

Chronic : Angiosarcoma and biliary tract, scleroderma, acroosteolysis.

Carcinogenic : 1 ppm Confirmed human carcinogen. (©ACGIH, 2001)

12. Ecological information :

Environment effect :

VCM condense perfection but by equipping ventilation which enough prevent the happening of explosion.

Environment degradation:

not available

Bio acumulation :

not available

13. Disposal Consideration

Change to polymer form and then sent to waste managemant company.

14. Transport information

International Rules :

DOT rules or your country rules

Transport over land :

Cylinder tank

Sea transportation :

Tanker ship

Air transportation :

no available

15. Regulatory Information :

Ministry of Indonesian Man Regulation No. KEP. 187/MEN/1999 about Controlling of Hazardous Chemical Materials in Working Place, section III about Determined of Hazardous Potential of Instalation. Refer to The Government of Republic Indonesia regulation (number 74 year 2001) for Handling of Hazardous Materials.

16. Other Information

Revison 1, June 2020

The information given corresponds to the current state of our knowledge and experience of the product.

This applies to product which conforms to the specification, unless otherwise stated.