SOLUTION U.S.P.

FOR MANUFACTURING USE ONLY. A DISINFECTANT FOR FORMULATING USE.

Active Ingredients:

On 254 1182

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Formaldehyde37% EPA Reg. No. 352-XXX

EPA Est. No. 352 NJ-

EPA Est. No. 352-OH-

MARK MEDICAL A

Keep out of reach of children.



DANGER



CALL A PHYSICIAN

Statement of Practical Treatment

If in eyes, immediately flush with plenty of water for 15 minutes, call a physician If on skin, wash with plenty of soap and water

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth to-mouth. If breathing is difficult, give oxygen

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person

See Side Panel For Additional Precautionary Statements.

NET 53.8 gal (203 L)

manufactured by: E. I. DU PONT DE NEMOURS & CO. (INC.) CHEMICALS AND PIGMENTS DEPARTMENT · WILMINGTON, DE

ACCEPTED with the "

FORMALDEHYDE

SOLUTION

UN 1198

Precautionary Statements Hazards to Humans

DANGER!

CAUSES EYE BURNS.
HARMFUL IF INHALED OR ABSORBED
THROUGH SKIN. MAY CAUSE
ALLERGIC SKIN REACTION.
MAY BE FATAL OR CAUSE BLINDNESS
IF SWALLOWED.
CAN NOT BE MADE NONPOISONOUS.
COMBUSTIBLE.

Before Using, Read The Du Pont Formaldehyde Product Data Sheet.

Do not get in eyes.

Avoid contact with skin and clothing.

Avoid breathing mist or vapor.

Keep container closed.

Use with adequate ventilation.

Do not use or store near heat or open flame.

Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS

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DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

STORAGE AND DISPOSAL: Store at room temperature above 50 F (10.0 C) to prevent formation of white solid or paste (Paraformaldehyde). Keep container closed.

PESTICIDE DISPOSAL Pesticide, spray mixture, or times water that cannot be used according to label instructions must be disposed of according to applycable Federal, state, or local procedures.

CONTAINER DISPOSAL. Triple time and recycle or puncture and dispose of in a satisfary fandfill, or by other approved state and local procedures.

Packaged and Distributed by:

MATERIAL SAFETY DATA SHEET

Chemical Family

CAS Registry No. 50-00-0

Du Pont Registry No.

Aldehyde

Formula

CH₂O

IDENTIFICATION

Name

Formaldehyde Solutions

Grade

USP 37-7, USP 37-11, LM 37 to 52%

Synonyms

Formalin, Methanal

CAS Name

Formaldehyde

I.D. Nos./Codes NIOSH Registry No. LP8925000

Wiswesser Line Notation VHH

Manufacturer/Distributor

E. I. du Pont de Nemours & Co. (inc.)

Address

Wilmington, DE 19898

PHYSICAL DATA

Boiling Point, 760 mm Hg

96.7 to 100°C (206 to 212°F)

Specific Gravity

1.10 to 1.13

Vapor Density

~1 % Volatiles by Vol.

100%

Form

Appearance Clear

Liquid

pH Information

2.8 to 4.0 HAZARDOUS COMPONENTS

Material(s)

USP 37-7

USP 37-11

LM Grades

Approximate &

Formaldehyde 37%

Formaldehyde 37%

Formaldehyde 37 to 52%

Odor

Methanol 11%

HAZARDOUS REACTIVITY

Instability

No known hazardous instability.

Incompatibility Reacts with many compounds. Reaction with phenol, strong acids, or alkalic may be violent. Reaction with hydrochloric acid may form bis-chloromethyl ether, an OSHA-requlated carcinogen.

Decomposition: Slow at elevated temperatures. Formaldehye gas is released. Polymerization

Nonhazardous polymerization may occur at low temperatures.

E- 44453

Date: 8/81

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ACCEPTED

Product Information and Emergency Phone (302) 774-2421

Transportation Emergency Phone (800) 424-930C

Melling Point Polymerizes and separates below 0 to 67°C (32 to 153°F)

Vapor Pressure 17 to 20 mm Hg at 25°C (77°F) solubility in H₂O Hg at 37.5°C (100°F)

Evaporation Rate (Butyl Acetate = 1)

~1.8 Color

Colorless

Octanol/Water Partition Coefficient

Pungent

Methanol 7%

Methanol 0.9 to 1.3%

FIRE AND EXPLOSION DATA

Flash Point Method 60 to 83°C (140 to 181°F) Flammable Limits in Air, ° by Vol. Lower 7 Upper 73

Autoignition Temperature 424°C (795°F)

Fire and Explosion Hazards Combustible

Extinguishing Media

"Alcohol" foam, dry chemical, carbon dioxide, water spray.

Special Fire Fighting Instructions Cool container with water spray. Water spray or fog will help to absorb escaping fumes. Evacuate affected area. Stay upwind and avoid contact with smoke and fumes. If contact can not be avoided, wear personal protective equipment (see page 3) including chemical splash goggles and air mask with breathing air supply.

HEALTH HAZARD INFORMATION

Exposure Limits

OSHA 8-hour Time-Weighted Average (TWA) = 3 ppm; ceiling = 5 ppm. Du Pont Limit = 1 ppm TWA, 2 ppm ceiling.

Significant Routes and Effects of Exposure Causes eye burns; effects may be delayed. Harmful if inhaled or absorbed through skin. May cause allergic skin reaction, USP grades may be fatal or cause blindness if swallowed; cannot be made nonpoisonous. Chronic Effects: In a 2-year study at the Chemical Industry Institute of Toxicology (CIIT), nasal tumors were detected in rats exposed (via inhalation) to formaldehyde at 6 ppm and in rats and mice exposed at 15 ppm. Safety Precautions

Do not get in eyes.

Avoid contact with skin and clothing.

Avoid breathing mist or vapor.

Wash thoroughly after handling. Wash contaminated clothing thoroughly before reuse.

First Aid

Eyes: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin: In case of skin contact, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

Inhalation: If inhaled, remove patient to fresh air immediately. Call a physician promptly. If not breathing, give artificial respiration, preferably mouth-to-mouth.If breathing is difficult, administer oxygen.

ingestion: If swallowed, induce vomiting immediately by giving 2 glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth ... to an unconscious person.

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PROTECTION INFORMATION

Ventilation

Adequate to keep formaldehyde concentration below indicated exposure limits. If limits may be exceeded, use air masks with breathing air supply.

Personal Protective Equipment

Use chemical splash goggles, neopiene or polyvinyl chloride gloves, coveralls with long sleeves, hard hat, and safety shoes with neopiene or PVC soles. Use breathing air supply from airline mask or self-contained breathing mask if exposure limits are exceeded.

Other

DISPOSAL INFORMATION

Aquatic Toxicity

TLm 96: 100-10 ppm

Spill, Leak or Release Keep upwind of leak; evacuate area until gas has dispersed. Soak up small leaks with rags or other absorbent and remove in covered metal containers or drums. Dike large spills. Neutralize with dilute (5%) solutions of ammonia, sodium sulfite, or sodium bisulfite and remove. Flush spill area with plenty of water.

Waste Disposal

Comply with federal, state, and local regulations. If approved, flush to chemical sewer, incinerate, dispose in sanitary landfill, or flush to waste water treatment system. Very dilute solutions can be handled by biochemical action in formaldehydeadapted waste treatment systems; water spray or fog will help absorb escaping fumes. (See 40 CFR 116).

SHIPPING INFORMATION

Transportation

DOT Hazard Class.': Combustible liquid (in containers over 110 gallons) ORM-A (in containers of 110 gallons or less)
DOT Shipping Name:

Formaldehyde or Formalin Solution

RQ Quantity': 1,000 1b/454 kg '49 CFR 172.101 Shipping Containers

Railroad tank cars, tank trucks, drums, bottles.

IMCO Class.:

3.8 (flash point ≤ 61°C/141°F)
9 (flash point > 61°C/141°F)

UH No.:

1198 (flash point < 61°C/141°F)
2209 (flash point > 61°C/141°F)...

Storage Conditions

Keep container closed. Keep away from heat and open flame. Store in tested tank or warm room, above minimum storage temperature for grade handled.

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ADDITIONAL INFORMATION AND REFERENCES

For more information, see: Du Pont Formaldehyde Solutions Data Sheet and Du Pont Formaldehyde Solutions Properties, Uses, Storage and Handling Bulletin.

QUPONT

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Date: 8/81

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EPA Form 8570-6 (Rev. 5-76)

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PREVIOUS LOTTION MAY BE USED UNTIL SUPPLY IS EXMAUSTED.

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4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

John H. Lee

Product Manager (31) Disinfectants Branch

Registration Division (T8-767)

Enclosure

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