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ACCUSOL-70	MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : Accusol-70

Product code : 799992

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd
DGL 128-129, DLF The Galleria,
Mayur Vihar Phase 1 Extension,
New Delhi-110091
INDIA

Telephone : +91 11 49404040
Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:Flammable liquids, category 2
Acute toxicity (oral, dermal, inhalation), category 3
Reproductive toxicity, category 2
Specific target organ toxicity following single exposure, category 3Narcotic effects
Specific target organ toxicity following repeated exposure, category 2

Hazard statements:

Highly flammable liquid and vapour.Toxic if swallowed.
May cause drowsiness or dizziness.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

2.2 Precautionary statements:

If medical advice is needed, have product container or label at hand.Keep out of reach of children.
Read label before use.
Do not eat, drink or smoke when using this product.Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Use personal protective equipment as required.
Keep away from heat/sparks/open flames/hot surfaces – No smoking.Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/light/…/equipment.Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.Wash … thoroughly after handling.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use … for extinction.
Rinse mouth.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get Medical advice/attention if you feel unwell.
Collect spillage.
IF exposed or concerned: Get medical advice/attention.Store in a well ventilated place. Keep cool.
Store locked up.
Store in a well ventilated place. Keep container tightly closed.Dispose of contents/container to ….

2.3 Other Non-GHS Classification:

WHMIS

B2 

D2B 

D1B 

NFPA/HMIS



NFPA SCALE (0-4)



HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 64-17-5	Ethanol, Denatured*	70 %
CAS 67-56-1	*Methanol	<10 %
CAS 108-10-1	*MIBK	<10 %
CAS 67-63-0	*Isopropyl Alcohol	<10 %
CAS 7732-18-5	Water, Purified	30 %
		Percentages are by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

After skin contact:

Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists.

After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medicalattention if irritation, discomfort or vomiting persists.

4.2 Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath. Dizziness. Vomiting. Impact to organs (liver, eyes, other- various). Impact to fetus (if pregnant).

4..3 Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Water. Dry chemical. Foam. Carbon dioxide.

Unsuitable extinguishing agents: None

5.2 Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Dangerous fire hazard when exposed toheat, sparks and open flames.

5.3 Advice for firefighters:

Protective equipment:

Wear protective equipment. Use NIOSH-approved respiratory protection/breathing apparatus. Use spark-proof tools and explosion-proof equipment.

5.4 Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

6.2 Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Collect spilled liquid for recovery, treatment or disposal.

6.3 Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained responsestaff/contractor.

Reference to other sections: None

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Wash hands before breaks and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Store in secure flammable storage area away from sources of ignition. Protect from freezing and physical damage.

SECTION 8: Exposure ersonal protection





Control Parameters:	108-10-1, MIBK, ACGIH TLV STEL: 75 ppm). 67-63-0, 2-Propanol, OSHA PEL TWA: 400 ppm (980 mg/m3). 67-63-0, 2-Propanol, NIOSH REL: TWA 400 ppm (980 mg/m3). 67-63-0, 2-Propanol, NIOSH REL ST: 500 ppm (1225 mg/m3). 67-63-0, 2-Propanol, ACGIH TLV TWA: 200 ppm. 67-63-0, 2-Propanol, ACGIH TLV STEL: 400 ppm. 64-17-5, Ethanol, ACGIH TLV TWA: 1000 ppm (1881mg/m3). 64-17-5, Ethanol, OSHA PEL: TWA 1000 ppm (1900 mg/m3). 64-17-5, Ethanol, NIOSH IDLH: 3300 ppm [10%LEL]. 64-17-5, Ethanol, NIOSH REL TWA: 1000 ppm (1900 mg/m3). 67-56-1, Methanol, OSHA PEL TWA: 260 mg/m3 (200 ppm). 67-56-1, Methanol, OSHA PEL STEL: 325 mg/m3 (250 ppm). 67-56-1, Methanol, ACGIH TLV TWA: 262 mg/m3. 67-56-1, Methanol, ACGIH TLV STEL: 328 mg/m3 (250 ppm). 108-10-1, MIBK, OSHA PEL TWA: 205 mg/m3 (50 ppm). 108-10-1, MIBK, OSHA PEL STEL: 300 mg/m3 (75 ppm). 108-10-1, MIBK, ACGIH TLV TWA 20 mg/m3.
Appropriate Engineering controls:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.
Protection of skin:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection:	Safety glasses with side shields or goggles.
General hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid	**Explosion limit lower:** **Explosion limit upper:**	3.3 19.0
Odor:	Alcohol	**Vapor pressure:**	73 mm Hg @ 20 C

Odor threshold:	10 ppm	**Vapor density:**	1.59
pH-value:	Not determined	**Relative density:**	0.790 @ 20°C
Melting/Freezing point:	-114.1C	**Solubilities:**	infinite solubility.
Boiling point/Boiling range:	78 C	**Partition coefficient (n-octanol/water):**	Not determined
Flash point (closed cup):	16.6°C	**Auto/Self-ignition temperature:**	363°C
Evaporation rate:	Not determined	**Decomposition temperature:**	Not determined
Flammability (solid,gaseous):	Flammable	**Viscosity:**	a. Kinematic: Not determined b. Dynamic: Not determined
Density: Not determined			

SECTION 10: Stability and reactivity

10.1 Reactivity:

Stable under normal conditions of use and storage.

10.2 Chemical stability:

No decomposition if used and stored according to specifications.

10.3 Possible hazardous reactions:

None under normal processing.

10.4 Conditions to avoid:

Excess heat, Incompatible Materials, Ignition source, or Flame.

10.5 Incompatible materials:

Strong oxidizers, heat, sparks, open flames, platinum, sodium, bromine pentafluoride, potassium dioxide, acetyl bromide, acetyl chloride.

10.6 Hazardous decomposition products:

Oxides of carbon, acrid and irritating fumes.

SECTION 11: Toxicological information

Acute Toxicity:

Inhalation:	64000 mg/kg 4 hr	LD50(rat) (Methanol 64-17-5)
Oral:	7060 mg/kg	LD50 oral-rat: (Ethanol 64-17-5)
Oral:	6200 mg/kg	LD50(rat) (Ethanol 64-17-5)
Oral:	4600 mg/kg	LD50(rat) (MIBK 108-10-1)
Oral:	5628 mg/kg	LD50(rat) (Methanol 67-56-1)
Inhalation:	20000 mg/kg 10 hr	LD50(rat) (Ethanol 64-17-5)
Inhalation:	8.2 mg/kg 4 hr	LD50(rat) (MIBK 108-10-1)
Chronic Toxicity:		
Oral:	May cause damage to the following organs: blood, kidneys, the reproductive system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.	Human
Corrosion Irritation:		
Ocular:		May cause eye irritation.
Sensitization:		No additional information.
Single Target Organ (STOT):		Classified as STOT in Section 2 (multiple organs - see above, Section 11).
Numerical Measures:		No additional information.
Carcinogenicity:		IARC: IARC classification (1) for Ethanol, CAS# 64-17-5, is intended for use in alcoholic beverage use only. This product is NOT intended for this use. : Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12: Ecological information

12.1 Ecotoxicity:

: Ethanol has a slight acute and chronic toxicity to aquatic life.

12.2 Persistence and degradability:

Readily degradable in the environment.

12.3 Bioaccumulative potential:

No information available.

12.4 Mobility in soil:

Aqueous solution has high mobility in soil.

12.5 Other adverse effects: None Identified.

SECTION 13: Disposal considerations

13.1 Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all wastematerials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product

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SECTION 14: Transport information

14.1 UN-Number:

1170

14.2 UN proper shipping name:

Ethanol (Mixture)

Transport hazard class(es): None
Packing group: II **Environmental hazard**: None **Transport in bulk**: Not Applicable
Special precautions for user: None

SECTION 15: Regulatory information

15.1 United States (USA)

SARA Section 311/312 (Specific toxic chemical listings): Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

67-56-1 Methanol.
67-63-0 2-Propanol.
108-10-1 MIBK.

RCRA (hazardous waste code): None
of the ingredients are listed.

TSCA (Toxic Substances Control Act):None
of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):None
of the ingredients are listed.

15.2 Proposition 65 (California):

Chemicals known to cause cancer:None of
the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:None
of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:None of
the ingredients are listed.

Chemicals known to cause developmental toxicity:
108-10-1 Methanol.

15.3 Canada

Canadian Domestic Substances List (DSL):All
ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):64-
17-5 Ethanol.

Canadian NPRI Ingredient Disclosure list (limit 1%):
67-56-1 Methanol.
67-63-0 2-Propanol.
108-10-1 MIBK.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.