Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

Avagard™(Chlorhexidine Gluconate 1% Solution and Ethyl Alcohol 61% w/w) Surgical and Healthcare Personnel Hand Antiseptic with Moisturizers 9200, 9200C, 9216, 9218

Product Identification Numbers

70-2007-1856-0 70-2011-9072-8

1.2. Recommended use and restrictions on use

Recommended use

Hand Cleanser

1.3. Supplier's details

Address: KCI Medical India Private Limited, S - 327, Greater Kailash - II, New Delhi, Delhi, 110048, India
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1.4. Emergency telephone number

CHEMTREC 1-800-424-9300 OR 1-703-527-3887, Contract number# 1015211

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.
Serious Eye Damage/Irritation: Category 2A
Acute Aquatic Toxicity: Category 2.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal Word
Danger

Symbols
Flame | Exclamation mark |

Pictograms



HAZARD STATEMENTS:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Ethanol	64-17-5	55 - 65
Water	7732-18-5	20 - 30
Docosyl Alcohol	661-19-8	1 - 1.3
Polyethylene Glycol	25322-68-3	1 - 1.3
GLYCOLS, POLYETHYLENE, MONODOCOSYL ETHER	26636-40-8	0.9 - 1.5

Fatty acids, C18-unsatd, dimers, hydrogenated, diisopropyl esters	103213-20-3	0.9 - 1
Squalane	111-01-3	1
D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	18472-51-0	1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use PPE - Exposure Assessment Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations.

If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid eye contact. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

	25322-68-3	AIHA	TWA:10 mg/m³	
	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.
Indirect vented goggles.

Skin/hand protection
No protective gloves required.

Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Color	White
Odor	Slight Alcohol
Odour threshold	*No data available.*
pH	6
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	77.8 ºC
Flash point	21 ºC [*Test Method:*Closed Cup] [*Details:*(69.8 degrees F)]
Evaporation rate	1.4 [*Ref Std:*BUOAC=1]
Flammability	Flammable Liquid: Category 2.
Flammable Limits(LEL)	3.28 % volume
Flammable Limits(UEL)	19 % volume
Vapour pressure	186158.4 Pa [@ 55 ºC]
Relative Vapor Density	1.6 [*Ref Std:*AIR=1]
Density	0.83 g/ml
Relative density	0.83 [*Ref Std:*WATER=1]
Water solubility	Moderate
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	799 ºC
Decomposition temperature	*No data available.*
Kinematic Viscosity	180,723 mm²/sec
Volatile organic compounds (VOC)	496 g/l
Percent volatile	90 % weight
VOC less H2O & exempt solvents	630 g/l
Molecular weight	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.
Sparks and/or flames.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact
Contact with the skin during product use is not expected to result in significant irritation.

Eye contact
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
	Dermal	Rabbit	LD50 > 15,800 mg/kg
	Inhalation-Vapor (4 hours)	Rat	LC50 124.7 mg/l
	Ingestion	Rat	LD50 17,800 mg/kg
	Ingestion	similar compounds	LD50 > 2,000
	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
	Dermal	Rabbit	LD50 > 20,000 mg/kg
	Ingestion	Rat	LD50 32,770 mg/kg
	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
	Ingestion	Rat	LD50 > 2,000 mg/kg
	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
	Dermal	Rabbit	LD50 > 5,000 mg/kg
	Ingestion	Rat	LD50 > 2,000 mg/kg
	Ingestion	Rat	LD50 > 5,000 mg/kg
	Ingestion	Rat	LD50 2,000 mg/kg
	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
	Rabbit	No significant irritation
	Rabbit	Minimal irritation
	Rabbit	No significant irritation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Serious Eye Damage/Irritation

Name	Species	Value
	Rabbit	Severe irritant

	Rabbit	Mild irritant
	Rabbit	No significant irritation
	Rabbit	Mild irritant
	Rabbit	Corrosive

For the component/components, either no data are currently available or the data are not sufficient for classification.

Sensitization:

Skin Sensitisation

Name	Species	Value
Overall product	Guinea pig	Not classified
	Human	Not classified
	Guinea pig	Not classified
	Multiple animal species	Not classified
	Human and animal	Some positive data exist, but the data are not sufficient for classification

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
	In Vitro	Some positive data exist, but the data are not sufficient for classification
	In vivo	Some positive data exist, but the data are not sufficient for classification
	In Vitro	Not mutagenic
	In vivo	Not mutagenic
	In Vitro	Not mutagenic
	In vivo	Not mutagenic

For the component/components, either no data are currently available or the data are not sufficient for classification.

Carcinogenicity

Name	Route	Species	Value
	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
	Ingestion	Rat	Not carcinogenic
	Ingestion	Multiple animal species	Not carcinogenic

For the component/components, either no data are currently available or the data are not sufficient for classification.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
	Inhalation	Not classified for development	Rat	NOAEL 38	during

				mg/l	gestation
	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/- 1341 mg/kg/day	5 days
	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/day	during gestation
	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
	Ingestion	Not classified for development	Rat	NOAEL 30 mg/kg/day	during gestation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
	Inhalation	hematopoietic system | immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months

	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
	Ingestion	kidney and/or bladder | heart | endocrine system | hematopoietic system | liver | nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks
	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 0.89 mg/kg/day	1 years
	Ingestion	immune system	Not classified	Rabbit	NOAEL 71 mg/kg/day	2 years
	Ingestion	hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 71 mg/kg/day	2 years
	Ingestion	hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

For the component/components, either no data are currently available or the data are not sufficient for classification.

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
	64-17-5	Fish	Experimental	96 hours	LC50	11,000 mg/l
	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
	661-19-8	Green algae	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
	661-19-8	Sediment organism	Analogous	6 days	EC50	>1,000 mg/kg (Dry Weight)

			Compound			
	661-19-8	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
	661-19-8	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
	25322-68-3	Activated sludge	Experimental	N/A	EC50	>1,000 mg/l
	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
	661-19-8	Green algae	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
	661-19-8	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	>100 mg/l
	661-19-8	Bacteria	Analogous Compound	30 minutes	EC50	>10,000 mg/l
	26636-40-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
	103213-20-3	Bacteria	Experimental	16 hours	EL50	>10,000 mg/l
	103213-20-3	Common Carp	Experimental	96 hours	LC50	>100 mg/l
	111-01-3	Green algae	Experimental	72 hours	EC50	>100 mg/l
	111-01-3	Water flea	Experimental	48 hours	LC50	>100 mg/l
	111-01-3	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
	18472-51-0	Activated sludge	Experimental	3 hours	EC50	25 mg/l
	18472-51-0	Green algae	Experimental	72 hours	ErC50	0.081 mg/l
	18472-51-0	Water flea	Experimental	48 hours	EC50	0.087 mg/l
	18472-51-0	Zebra Fish	Experimental	96 hours	LC50	2.08 mg/l
	111-01-3	Green algae	Experimental	72 hours	NOEC	100 mg/l
	18472-51-0	Green algae	Experimental	72 hours	NOEC	0.007 mg/l
	18472-51-0	Water flea	Experimental	21 days	NOEC	0.021 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
	64-17-5	Experimental Biodegradation	14 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
	661-19-8	Experimental Biodegradation	28 days	CO2 evolution	87.5 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
	25322-68-3	Experimental Biodegradation	28 days	BOD	53 %BOD/ThOD	OECD 301C - MITI test (I)
	26636-40-8	Data not available-insufficient	N/A	N/A	N/A	N/A
	18472-51-0	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	71 %removal of DOC	OECD 301A - DOC Die Away Test
	103213-20-3	Experimental Biodegradation	28 days	CO2 evolution	5.5 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
	111-01-3	Experimental Biodegradation	28 days	CO2 evolution	77 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	
	25322-68-3	Estimated Bioconcentration		Bioaccumulation factor	2.3	

	661-19-8	Modeled Bioconcentration		Bioaccumulation factor	10	Catalogic™
	661-19-8	Experimental Bioconcentration		Log Kow	8.3	
	26636-40-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
	103213-20-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
	111-01-3	Modeled Bioconcentration		Bioaccumulation factor	7.4	Catalogic™
	18472-51-0	Experimental Bioconcentration		Log Kow	-1.81	OECD 107 log Kow shke flsk mtd
	111-01-3	Experimental Bioconcentration		Log Kow	5.49	similar to OECD 107

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Air Transport (IATA)Regulations

UN No UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Classs/Division 3
Subsidiary Risk Not applicable
Packing Group: II

Marine Transport (IMDG)
UN No UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Classs/Division 3
Subsidiary Risk Not applicable
Packing Group: II
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
The product is classified as a Highly Flammable Liquid as per MSIHC Rules,1989.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 3 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 1: Product identification numbers information was modified.
Section 2: Ingredient table information was modified.

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