

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME ISOPROPYL ALCOHOL 70%

PRODUCT CODE 1769

SUPPLIER MEDISCA Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Industrial/Lab Use Only

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Flammable Liquid (Category 2)

Acute Toxicity - Inhalation (Category 5)

Specific Target Organ Toxicity - Single Exposure (Category 3) - CNS

PICTOGRAM



SIGNAL WORD

HAZARD STATEMENT(S)

Danger

Highly flammable liquid and vapor. Vapour/air mixtures are explosive.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness. May be harmful if swallowed or inhaled.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

Repeated exposure may cause skin dryness or cracking



PRECAUTIONARY STATEMENT(S) Prevention Keep away from heat, sparks, open flames and No smoking

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof equipment

Use non-sparking tools

Take action to prevent static discharges

Wear protective gloves, protective clothing, eye and face protection.

Wash thoroughly after handling. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust, fume, gas, mist, vapors and spray.

Use only outdoors or in a well-ventilated area.

Response IN CASE OF FIRE: Use powder, alcohol-resistant foam, water in large amounts, carbon

dioxide. In case of fire: keep drums, etc., cool by spraying with water.

IF ON SKIN (HAIR): Take off immediately all contaminated clothing. Rinse affected areas

with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison

center or doctor. Get medical help if you feel unwell.

Storage Store in a well-ventilated place.

Keep cool.

Store locked up.

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION Health Hazard 2 Flammability 3

Reactivity 1 Personal Protection

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME 2-propanol

BOTANICAL NAME Not applicable

SYNONYM 2-Propyl alcohol; 1-Methylethanol; Secondary Propyl Alcohol; Propan-2-ol; IPA

CHEMICAL FORMULA

CHEMICAL FAMILY

Not available

CAS NUMBER

Not applicable

ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT Not applicable

COMPOSITION

 CHEMICAL NAME
 CAS NUMBER
 EC NUMBER
 % BY WEIGHT

 ISOPROPYL ALCOHOL
 67-63-0
 200-661-7
 70% v/v

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES Balance is water

SECTION 4: FIRST-AID MEASURES

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IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician.

MEDICAL ATTENTION AND SPECIAL

TREATMENT

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Flammable

FLAMMABLE PROPERTIES

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Vapour/air mixtures are explosive.

Under fire conditions, hazardous fumes will be present.

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water

spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

METHODS & MATERIAL FOR CONTAINMENT

CLEANUP PROCEDURE

On land, sweep or shovel into suitable containers.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

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CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

	Country Limit valu		llue-8 hours Limit value-Short Term		IDLH	REL	Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	400	980	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	200	400	N/L	N/L	N/L	N/L	N/A	A4 (not classifiable as a human carcinogen)
NIOSH	USA	400	980	500	1225	2000 ppm	400ppm (980mg/m ³	N/A	*10%LEL (See: 67630)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	400	980	500	1225	N/L	N/L	N/A	N/A
HSE	UK	400	983	500	1250	N/L	N/L	N/A	N/A
GESTIS	Austria	200	500	800	2000	N/L	N/L	N/A	N/A
GESTIS	Belgium	200	500	400 (1)	1000 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada - Ontario	200	N/L	400	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Quebec	400	983	500	1230	N/L	N/L	N/A	N/A
GESTIS	Denmark	200	490	400	980	N/L	N/L	N/A	N/A
GESTIS	Finland	200	500	250 (1)	620 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	N/L	N/L	400	980	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	200	500	400 (1)	1000 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	200	500	400	1000	N/L	N/L	N/A	STV 15 minutes average value
GESTIS	Hungary	N/L	N/L	500	2000	N/L	N/L	N/A	N/A
GESTIS	Ireland	200	N/L	N/L	400 (1)	N/L	N/L	N/A	(1) 15 minutes reference period
GESTIS	Japan (MHLW)	400	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Japan (JSOH)	400 (1)	980 (1)	N/L	N/L	N/L	N/L	N/A	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
GESTIS	Latvia	N/L	350	N/L	600 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	New Zealand	400	983	500	1230	N/L	N/L	N/A	N/A



GESTIS	China	N/L	350	N/L	700 (1)	N/L	N/L	N/A	(1) 15 minutes average
									value
GESTIS	Poland	N/L	900	N/L	1200	N/L	N/L	N/A	N/A
GESTIS	Romania	81	200	203 (1)	500 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	400	983	500	1230	N/L	N/L	N/A	N/A
GESTIS	South Korea	200	480	400	980	N/L	N/L	N/A	N/A
GESTIS	Spain	200	500	400	1000	N/L	N/L	N/A	N/A
GESTIS	Sweden	150	350	250 (1)	600 (1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	200	500	400	1000	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINESConsult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m³. A harmful contamination of the air will be reached rather slowly on evaporation of this

substance at 20°C; on spraying or dispersing, however, much faster.

PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING Not available

CONTROL BANDING Not available

NOTES

The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

Mild irritation of the upper respiratory tract may begin at approximately 400 ppm. High concentrations may cause drowsiness, lack of coordination and deep narcosis.

Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

OEL

MAK: 200 ppm, 500 mg/m³

Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2004).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

DESCRIPTION Transparent, colorless, mobile, volatile liquid, having a characteristic odor.

SOLUBILITY Miscible with water, with alcohol, with ether, and with chloroform.

ODOR Characteristic odor

FLAMMABILITY Flammable

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AUTO-IGNITION TEMPERATURE	456°C, 852.8°F*	BOILING POINT	83°C, 181.4°F*	DECOMPOSITION TEMPERATURE	Not available
EVAPORATION RATE	2.3 (butyl acetate=1)*	EXPLOSIVE LIMIT	2 - 12%*	FLASH POINT	(18.2 - 24)°C, (64.76-75.2)°F (Closed Cup)
log P (OCTANOL-WATER)	0.05 (25°C)*	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	-90°C, -130°F*
PARTICLE CHARACTERISTICS	40 - 200ppm*	OXIDIZING PROPERTY	Not available	pH	6.0 - 8.0
RELATIVE DENSITY (WATER = 1)	0.79*	SPECIFIC GRAVITY	0.872 - 0.883 (20°C)	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	2.1*	VAPOR PRESSURE	4.4 kPa (20°C)*	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

NOTES *pure IPA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY Not established

Stable under recommended storage conditions **CHEMICAL STABILITY**

INCOMPATIBLE MATERIALS Strong oxidants. Strong acids. Aluminium if > 50°C. Most plastics. Neoprene rubber.

HAZARDOUS DECOMPOSITION Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

PRODUCTS

REACTION

HAZARDOUS POLYMERIZATION Will not occur Not established POSSIBLITY OF HAZARDOUS

CONDITIONS TO AVOID

Moisture, sunlight and extreme temperatures.

Heat. Sources of ignition.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY ISOPROPYL ALCOHOL (pure):

Oral: Rat: LD50: (mg/kg): 4396 Dermal: Rabbit LD50: (mg/kg): 12 800 Inhalation: Rat: LC50: (mg/L/4hr): 72.6

Calculated ATE:

Oral: Rat: LD50: (mg/kg): 6793 Dermal: Rabbit LD50: (mg/kg): 19 781 Inhalation: Rat: LC50: (mg/L/4hr): 112

SKIN CORROSION/IRRITATION Causes mild skin irritation: pH 6.0 - 8.0

Skin irritancy test. Result: Mild irritation. Species: Rabbit

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SERIOUS EYE DAMAGE/EYE

IRRITATION

Eye irritancy test. Result: Moderate to severe irritation. Species: Rabbit

RESPIRATORY SENSITIZATION

Based on available data, the classification criteria are not met.

Causes serious eye irritation: pH 6.0 - 8.0

SKIN SENSITIZATION

Based on available data, the classification criteria are not met. Guinea pig Buehler test. Result: No sensitization noted

GERM CELL MUTAGENICITY

Based on available data, the classification criteria are not met.

CARCINOGENICITY

ISOPROPYL ALCOHOL (Alcohol 99%) is not listed. **OSHA** NTP ISOPROPYL ALCOHOL (Alcohol 99%) is not listed.

IARC

ISOPROPYL ALCOHOL (Alcohol 99%) is listed in group 3 (not classifiable as to its

Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility. Based on available

carcinogenicity to humans).

California

This product does not contain any chemicals known to the State of California to cause

Proposition 65

data, the classification criteria are not met.

cancer, birth defects, or any other reproductive harm. Based on available data, the classification criteria are not met.

ADDITIONAL CARCINOGENICITY INFORMATION

REPRODUCTIVE TOXICITY

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

SPECIFIC TARGET ORGAN TOXICITY -REPEATED EXPOSURE

ASPIRATION HAZARDS

SIGNS AND SYMPTOMS OF

POTENTIAL HEALTH EFFECTS

EXPOSURE

The substance may cause effects on the central nervous system.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Isopropyl alcohol is considered to be more toxic than ethyl alcohol and the symptoms of intoxication appear to be similar, except that isopropyl alcohol has no initial euphoric action and gastritis, haemorrhage, pain, nausea, and vomiting are more prominent. The lethal oral dose is reported to be about 120 to 240 mL in adults; however, toxic symptoms may be produced by as little as 20 mL. Ketoacidosis and ketonuria commonly occur due to the presence of the major metabolite, acetone, in the circulation.

Possible direct toxic effects on the brain, thiamine deficiency, Wernicke-Korsakoff syndrome; pancreatitis, cardiovascular disease, tremor, agitation, feelings of dread, nausea, vomiting, sweating, hallucinations, seizures, delirium tremens, fetal alcohol syndrome.

The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation. Cough. Dizziness. Drowsiness.

alcohol to the skin may cause dryness and irritation; suitable precautions should be taken to

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Headache. Sore throat. Mild irritation of the upper respiratory tract may begin at

approximately 400 ppm. High concentrations may cause drowsiness, lack of coordination

and deep narcosis.

Ingestion May be harmful if swallowed. Abdominal pain. Laboured breathing. Nausea.

Unconsciousness. Vomiting. Death.

Skin May be harmful if absorbed through skin. Causes skin irritation. Application of isopropyl

prevent absorption through the skin, particularly in infants.

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Eyes

Severe eye irritant. Vapours can irritate eyes beginning at approximately 400 ppm. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY ISOPROPYL ALCOHOL (pure):

EC50: 48 Hr: Crustacea: (mg/L): 13 299 LC50: 96 Hr: Fish: (mg/L): 61 200 IC50: 72 Hr: Algae: (mg/L): > 1000

Calculated:

EC50: 48 Hr: Crustacea: (mg/L): 94 576 LC50: 96 Hr: Fish: (mg/L): 20 552 IC50: 72 Hr: Algae: (mg/L): 1545

PERSISTENCE AND DEGRADABILITY

Readily biodegradable meeting the 10 day window criterion.

BIOACCUMULATIVE POTENTIAL

Not likely to bioaccumulate: LogPow: 0.05 (25°C)

MOBILITY IN SOIL

Will likely be mobile in the environment due to its water solubility and may contaminate groundwater.

Oxidises rapidly by photo-chemical reactions in air.

ISOPROPYL ALCOHOL:

Water Solubility: 1.00E+06 mg/L (25°C)

Henry's Law Constant: 8.10E-06 atm-m³/mole (25°C)

OTHER ADVERSE EFFECTS

Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME ISOPROPYL ALCOHOL

UN NUMBER 1219
CLASS 3
PACKING GROUP II

AUSTRALIA

HAZCHEM 2YE

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

Not Listed

IBC CODE

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable



SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
ISOPROPYL ALCOHOL, 67-63-0	N/L	X	N/L	N/L	X	Х	X	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ISOPROPYL ALCOHOL, 67-63-0	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ISOPROPYL ALCOHOL, 67-63-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

AGREEMENT

Not applicable

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS – Chemical Abstract Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; EC50 – Effective Concentration, 50%; EPA – Environmental Protection Agency; GHS – Global Harmonized System; HMIS – Hazardous Materials Information System; HSE – Health and Safety Executive; HSIS – Hazardous Substances Information System; IARC – International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN – Ready Biodegradability Model; ISS – Instituto Superiore Sanità; LC50 – Lethal Concentration, 50%; LD50 – Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; QSAR – Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA – Superfund Amendments and Reauthorization Act; STEL – Short Term Exposure Limit; TLV – Threshold Limit Value; TWA – Time Weighted Average; WHMIS – Workplace Hazardous Materials Information System

LAST REVISION

03/2023



SUPERSEDES 03/2020

For a list of changes to the SDS since the last version, please communicate with MEDISCA at

www.medisca.com

DISCLAIMERThis document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. 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. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary

Page to this Safety Data Sheet.