Thermo Fisher SCIENTIFIC

SAFETY DATA SHEET

Page 1/10 Creation Date 04-Jan-2010 Revision Date 07-Apr-2024 Version 5

ACR38844

Ammonia, 0.5M solution in THF

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明: 氨水, 0.5M四氢呋喃溶液

Product Description: Ammonia, 0.5M solution in THF

Cat No.: 388440000; 388441000

Supplier UK entity/business name

Fisher Scientific UK Bishop Meadow Road,

Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name Thermo Fisher Scientific

Janssen Pharmaceuticalaan 3a, 2440 Geel, Belgium

Emergency Telephone Number For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

E-mail address begel.sdsdesk@thermofisher.com

Recommended Use Laboratory chemicals.
Uses advised against No Information available

SECTION 2. HAZARD IDENTIFICATION

Physical StateAppearanceOdorLiquidColorlessNo information available

Emergency Overview

Highly flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer. May cause respiratory irritation. Harmful if swallowed. May cause drowsiness and dizziness. May form explosive peroxides. Hygroscopic.

Classification of the substance or mixture

Flammable liquids.	Category 2
Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity - (single exposure)	Category 3

Label Elements



Ammonia, 0.5M solution in THF

Signal Word Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H302 - Harmful if swallowed

H336 - May cause drowsiness or dizziness

Precautionary Statements

Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection/ face protection

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P330 - Rinse mouth

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P362 + P364 - Take off contaminated clothing and wash it before reuse

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Physical and Chemical Hazards

Vapors may cause flash fire or explosion. Highly flammable. May form explosive peroxides. Hygroscopic.

Health Hazards

Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer. May cause respiratory irritation. Harmful if swallowed. May cause drowsiness or dizziness.

Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. . Will likely be mobile in the environment due to its water solubility. The product is water soluble, and may spread in water systems.

Toxic to terrestrial vertebrates. This product does not contain any known or suspected endocrine disruptors.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Ammonia	7664-41-7	1
Tetrahydrofuran	109-99-9	99

SECTION 4. FIRST AID MEASURES

Page 3 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

General Advice

If symptoms persist, call a physician.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Notes to Physician

Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. May form explosive peroxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Refer to protective measures listed in Sections 8 and 13.

Ammonia, 0.5M solution in THF

SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. If peroxide formation is suspected, do not open or move container. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Refrigerator/flammables. Shelf life 12 months. May form explosive peroxides on prolonged storage. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals.

Specific Use(s)

Use in laboratories

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Component	China	Taiwan	Thailand	Hong Kong
Ammonia	TWA: 20 mg/m ³	TWA: 50 ppm	TWA: 50 ppm	TWA: 25 ppm
	STEL: 30 mg/m ³	TWA: 35 mg/m ³		TWA: 17 mg/m ³
		_		STEL: 35 ppm
				STEL: 24 mg/m ³
Tetrahydrofuran	TWA: 300 mg/m ³	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
		TWA: 590 mg/m ³		TWA: 590 mg/m ³
				STEL: 250 ppm
				STEL: 737 mg/m ³

Component	ACGIH TLV	OSHA PEL	NIOSH	The United Kingdom	European Union
Ammonia	TWA: 25 ppm	(Vacated) STEL: 35	IDLH: 300 ppm	STEL: 35 ppm 15 min	TWA: 20 ppm (8h)
	STEL: 35 ppm	ppm	TWA: 25 ppm	STEL: 25 mg/m ³ 15	TWA: 14 mg/m³ (8h)
		(Vacated) STEL: 27	TWA: 18 mg/m ³	min	STEL: 50 ppm (15min)
		mg/m³	STEL: 35 ppm	TWA: 25 ppm 8 hr	STEL: 36 mg/m ³
		TWA: 50 ppm	STEL: 27 mg/m ³	TWA: 18 mg/m ³ 8 hr	(15min)
		TWA: 35 mg/m ³			
Tetrahydrofuran	TWA: 50 ppm	(Vacated) TWA: 200	IDLH: 2000 ppm	STEL: 100 ppm 15 min	TWA: 50 ppm (8h)
-	STEL: 100 ppm	ppm	TWA: 200 ppm	STEL: 300 mg/m ³ 15	TWA: 150 mg/m ³ (8h)
	Skin	(Vacated) TWA: 590	TWA: 590 mg/m ³	min	STEL: 100 ppm
		mg/m³	STEL: 250 ppm	TWA: 50 ppm 8 hr	(15min)
		(Vacated) STEL: 250	STEL: 735 mg/m ³	TWA: 150 mg/m ³ 8 hr	STEL: 300 mg/m ³
		ppm		Skin	(15min)
		(Vacated) STEL: 735			Skin
		mg/m³			
		TWA: 200 ppm			
		TWA: 590 mg/m ³			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Exposure Controls

Page 5 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

	Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
	Butyl rubber	See manufacturers recommendations	-	EN 374	(minimum requirement)
١	Neoprene aloves				

Neoprene gioves

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colorless Physical State Liquid

Odor No information available

Odor Threshold No data available

DH No information available

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNo information available

Flash Point -36 °C / -32.8 °F Method - No information available

Page 6 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

Liquid

Evaporation Rate No data available

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density 0.850

Bulk Density Not applicable

Water Solubility Miscible

Solubility in other solvents

No information available

Partition Coefficient (n-octanol/water)

Component log Pow Tetrahydrofuran 0.45

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available
No data available
No data available

Explosive Properties Vapors may form explosive mixtures with air

Oxidizing Properties No information available

SECTION 10. STABILITY AND REACTIVITY

Stability Hygroscopic. May form explosive peroxides.

Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Incompatible products. Heat, flames and sparks. Exposure to moist air or water. Keep away

from open flames, hot surfaces and sources of ignition.

Materials to avoid Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information

(a) acute toxicity;

Toxicology data for the components

Component Ammonia		LD50 Oral LD50 Dermal		LC50 Inhalation	
		LD50 = 350 mg/kg (Rat)		$LC50 = 9850 \text{ mg/m}^3 \text{ (Rat) 1 h}$	
				LC50 = 13770 mg/m ³ (Rat) 1 h	
	Tetrahydrofuran	1650 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	180 mg/L (Rat)1 h 53.9 mg/L (Rat)4 h	

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

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

Component	Test method	Test species	Study result

Page 7 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

Tetrahydrofuran	Local Lymph Node Assay	mouse	non-sensitising
109-99-9 (99)	OECD Test Guideline 429		_

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

Component Test method		Test species	Study result
Tetrahydrofuran	OECD Test Guideline 476	in vivo	negative
109-99-9 (99)	Gene cell mutation	Mammalian	_
	OECD Test Guideline 473		
	Chromosomal aberration assay	in vitro	negative
		Mammalian	_

Category 2 (f) carcinogenicity;

> The table below indicates whether each agency has listed any ingredient as a carcinogen Limited evidence of a carcinogenic effect

Component	EU	UK	Germany	IARC
Tetrahydrofuran				Group 2B

Based on available data, the classification criteria are not met (g) reproductive toxicity;

Component	Test method	Test species / Duration	Study result
Tetrahydrofuran	OECD Test Guideline 416	Rat 2 Generation	NOAEL = 3,000 ppm
109-99-9 (99)			

(h) STOT-single exposure; Category 3

Results / Target organs Respiratory system

Central nervous system (CNS)

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Based on available data, the classification criteria are not met

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting: Causes central nervous system depression

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ammonia	LC50: 0.26 - 4.6 mg/L,	EC50 = 25.4 mg/L, 48h		EC50 = 2.0 mg/L 5 min
	96h (Lepomis	(Daphnia magna)		
	macrochirus)	NOEC = 0.79 mg/L		
	LC50: = 1.17 mg/L, 96h	(Daphnia magna)		
	flow-through (Lepomis			
	macrochirus)			
	LC50: 0.73 - 2.35 mg/L,			
	96h (Pimephales			
	promelas)			
	LC50: = 5.9 mg/L, 96h			
	static (Pimephales			
	promelas)			
	LC50: > 1.5 mg/L, 96h			

Page 8 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

	(Poecilia reticulata) LC50: = 1.19 mg/L, 96h static (Poecilia reticulata) LC50: = 0.44 mg/L, 96h (Cyprinus carpio)		
Tetrahydrofuran	2160 mg/l LC50 = 96 h Pimephales promelas Leuciscus idus: LC50: 2820 mg/L/48h		

Persistence and Degradability

Persistence

Degradation in sewage treatment plant

Persistence is unlikely, Miscible with water, based on information available.

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

	Component	log Pow	Bioconcentration factor (BCF)			
ı	Tetrahydrofuran	0.45	No data available			

Mobility in soil The product is water soluble, and may spread in water systems Will likely be mobile in the

environment due to its water solubility Highly mobile in soils

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information			
Tetrahydrofuran	Group III Chemical					
Persistent Organic Pollutant This product does not contain any known or suspected substance Ozone Depletion Potential This product does not contain any known or suspected substance						

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Can be landfilled or incinerated, when in

compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport

UN-No UN1993

Proper Shipping Name Flammable liquid, n.o.s.

Technical Shipping Name Tetrahydrofuran, Ammonia

Hazard Class 3
Packing Group II

IMDG/IMO

UN-No UN1993

Proper Shipping Name Flammable liquid, n.o.s.

Page 9 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

Technical Shipping Name Tetrahydrofuran, Ammonia

Hazard Class 3
Packing Group ||

<u>IATA</u>

UN-No UN1993

Proper Shipping Name Flammable liquid, n.o.s. **Technical Shipping Name** Flammable liquid, n.o.s. Tetrahydrofuran, Ammonia

Hazard Class 3
Packing Group ||

Special Precautions for User No special precautions required

SECTION 15. REGULATORY INFORMATION

International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

Component	The Inventory of Hazardous Chemicals (2015 Edition)	_	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Ammonia	X	X	X	Х	231-635-3	Х	Χ	Х	Χ	Χ	Χ	KE-01625
Tetrahydrofuran	Х	X	Χ	Х	203-726-8	Х	Х	Х	Χ	Χ	Χ	KE-33454

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements				
Ammonia	50 tonne	200 tonne				

National Regulations

SECTION 16. OTHER INFORMATION

Creation Date04-Jan-2010Revision Date07-Apr-2024Revision SummaryNot applicable.

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts. Chemical incident response training.

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b)
Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

Page 10 / 10 Revision Date 07-Apr-2024

Ammonia, 0.5M solution in THF

KECL - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

LD50 - Lethal Dose 50%

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

EC50 - Effective Concentration 50%

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet