

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 14-May-2009

Revision Date 04-Oct-2023

Revision Number 7

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1. Product identifier

Product Description:
Cat No. :
Synonyms
CAS No
Molecular Formula

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid 397860000; 397860010; 397860050 2,2-Bis(trifluoromethyl)acetic acid 564-10-3 C4 H2 F6 O2

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

Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

1.3. Details of the supplier of the safety data sheet

Company

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

E-mail address

begel.sdsdesk@thermofisher.com

1.4. 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

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Skin Corrosion/Irritation

Category 2 (H315)

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

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Category 2 (H319)

Category 3 (H335)

Serious Eye Damage/Eye Irritation Specific target organ toxicity - (single exposure)

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P337 + P313 - If eye irritation persists: Get medical advice/attention

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

P312 - Call a POISON CENTER or doctor if you feel unwell

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid	564-10-3		>95	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
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.	
4.2. Most important symptoms and effects, both acute and delayed		

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen fluoride.

5.3. Advice 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

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2. Environmental precautions

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510Class 11Storage Class (LGK) (Germany)Class 11

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

No information available

Predicted No Effect Concentration (PNEC)

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

No information available.

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. 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

sonal protective eq Eye Protection		(European standard	I - EN 166)	
Hand Protection	Protectiv	ve gloves		
Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)

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.

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: Particulates filter conforming to EN 143
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

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid
Appearance Odor Odor Threshold	No information available No data available

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits	50 - 53 °C / 122 - 127.4 °F No data available No information available Not applicable No information available No data available	Solid
Flash Point	No information available	Method - No information available
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
рН	No information available	
Viscosity	Not applicable	Solid
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/wat	er)	
Vapor Pressure	No data available	
Density / Specific Gravity	No data available	
Bulk Density	No data available	
Vapor Density	Not applicable	Solid
Particle characteristics	No data available	
9.2. Other information	C4 H2 F6 O2	

Molecular Formula	C4 H2 F6 O2
Molecular Weight	196.05
Evaporation Rate	Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	None known, based on information available	
10.2. Chemical stability	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization does not occur. None under normal processing.	
10.4. Conditions to avoid	Incompatible products. Excess heat. Avoid dust formation.	
10.5. Incompatible materials	Strong oxidizing agents.	

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen fluoride.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

ACR39786

Oral Dermal Inhalation No data available No data available No data available (b) skin corrosion/irritation; Category 2 (c) serious eye damage/irritation; Category 2 (d) respiratory or skin sensitization; Respiratory Skin Category 2 (e) germ cell mutagenicity; No data available No data available (f) carcinogenicity; No data available No data available (f) carcinogenicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (i) STOT-repeated exposure; No data available (j) aspiration hazard; No information available. (j) aspiration hazard; No information available. Solid The toxicological properties have not been fully investigated. Symptoms / effects,both acute and Belayed No information available. 11.2. Information on other hazards. Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors. SECTION 12: ECOLOGICAL INFORMATION Section 12: ECOLOGICAL INFORMATION		·····
(c) serious eye damage/irritation; Category 2 (d) respiratory or skin sensitization; Respiratory Skin No data available No data available (e) gern cell mutagenicity; No data available (f) carcinogenicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (l) STOT-repeated exposure; No data available (j) aspiration hazard; No tapplicable Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards: Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.	Dermal	No data available
(d) respiratory or skin sensitization; Skin No data available No data available (e) germ cell mutagenicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (i) STOT-repeated exposure; No data available (j) aspiration hazard; No data available Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards: Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.	(b) skin corrosion/irritation;	Category 2
Respiratory Skin No data available No data available (e) germ cell mutagenicity; No data available (f) carcinogenicity; No data available (f) carcinogenicity; No data available (g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (l) STOT-repeated exposure; No data available Target Organs No information available. (j) aspiration hazard; No tapplicable Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards: Assess endocrine disrupting properties for human health. This product does not contain. known or suspected endocrine disruptors.	(c) serious eye damage/irritation;	Category 2
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(g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (l) STOT-repeated exposure; No data available Target Organs No data available. (j) aspiration hazard; No tapplicable Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards: Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.	(e) germ cell mutagenicity;	No data available
(g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs Respiratory system. (i) STOT-repeated exposure; No data available Target Organs No data available (j) aspiration hazard; Not applicable Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards. Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.	(f) carcinogenicity;	No data available
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Results / Target organs Respiratory system. (i) STOT-repeated exposure; No data available Target Organs No information available. (j) aspiration hazard; Not applicable Solid Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.	(g) reproductive toxicity;	No data available
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(j) aspiration hazard;Not applicable SolidOther Adverse EffectsThe toxicological properties have not been fully investigated.Symptoms / effects,both acute and delayedNo information available.11.2. Information on other hazardsAssess endocrine disrupting properties for human health. This product does not contain a known or suspected endocrine disruptors.	(i) STOT-repeated exposure;	No data available
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Symptoms / effects,both acute and No information available. delayed 11.2. Information on other hazards Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain the known or suspected endocrine disruptors.	(j) aspiration hazard;	
delayed 11.2. Information on other hazards Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain the known or suspected endocrine disruptors.	Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain known or suspected endocrine disruptors.		No information available.
known or suspected endocrine disruptors.	11.2. Information on other hazards	
SECTION 12: ECOLOGICAL INFORMATION	Endocrine Disrupting Properties	Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.
	SE	CTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2. Persistence and degradability No information available

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12.3. Bioaccumulative potential	No information available
<u>12.4. Mobility in soil</u>	No information available
<u>12.5. Results of PBT and vPvB</u> assessment	No data available for assessment.
<u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors
<u>12.7. Other adverse effects</u> Persistent Organic Pollutant	This product does not contain any known or suspected substance

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Ozone Depletion Potential

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.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO	Not regulated
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> 14.4. Packing group	
ADR	Not regulated
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	
IATA	Not regulated
<u>14.1. UN number</u>	

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
3,3,3-Trifluoro-2-(trifluoromethyl)pr	564-10-3	-	-	-	-	-	-	-	-
opionic acid									

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
3,3,3-Trifluoro-2-(trifluoromethyl)pr opionic acid	564-10-3	-	-	-	-	-	-	-

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · J · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
3,3,3-Trifluoro-2-(trifluoromethyl)pro pionic acid	564-10-3	-	-	<u>-</u>

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
3,3,3-Trifluoro-2-(trifluoromet hyl)propionic acid	564-10-3	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? See table for values

 Component
 OECD PFAS
 US (EPA) PFAS
 EU (ECHA) PFAS
 UK (HSE) PFAS
 Chemsec PFAS (Sin List)

 3,3,3-Trifluoro-2-(trifluoromethyl)pro
 Listed
 Listed

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

Revision Date 04-Oct-2023

pionic acid			
(CAS #: 564-10-3)			

PFAS Legend

Listed = Meets the PFAS definition of the named authority

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 3 (self classification)

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

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

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

Legend

CAS - Chemical Abstracts Service	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemica Substances/EU List of Notified Chemical Substances	· · · · · · · · · · · · · · · · · · ·
PICCS - Philippines Inventory of Chemicals and Chemical Substances	ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances	AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit	TWA - Time Weighted Average
ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%
NOEC - No Observed Effect Concentration	POW - Partition coefficient Octanol:Water
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code	MARPOL - International Convention for the Prevention of Pollution from Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	VOC - (Volatile Organic Compound)
Key literature references and sources for data	

3,3,3-Trifluoro-2-(trifluoromethyl)propionic acid

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.

Creation Date	14-May-2009
Revision Date	04-Oct-2023
Revision Summary	Not applicable.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

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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