

## **SAFETY DATA SHEET**

Creation Date 22-Sep-2009 Revision Date 04-Nov-2022 Revision Number 8

## 1. Identification

Product Name 4-Chlorophenylmagnesium bromide, 0.9M solution in THF/toluene

Cat No.: AC377250000; AC377251000; AC377258000

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

#### Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **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

#### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 2
Substances/mixtures which, in contact with water, emit Category 1

flammable gases

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 1

Carcinogenicity

Category 2

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Target Organs - Respiratory system, Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure)

Category 2

Category 3

Category 3

Category 2

Category 2

Target Organs - Liver, Kidney, Heart, Neurological effects, Eyes, Ears.

Aspiration Toxicity

Category 1

Label Elements

#### Signal Word

#### Danger

#### **Hazard Statements**

Highly flammable liquid and vapor

In contact with water releases flammable gases which may ignite spontaneously

May be fatal if swallowed and enters airways

Causes severe skin burns and eye damage

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing cancer

Suspected of damaging the unborn child

May cause damage to organs through prolonged or repeated exposure



#### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

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

Use personal protective equipment as required

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

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

Keep cool

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

#### Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

Do NOT induce vomiting

Rinse mouth

#### Fire

In case of fire: Use limestone powder, sodium chloride or dry sand to extinguish

### Storage

Store locked up

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

Store in a dry place. Store in a closed container

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Reacts violently with water May form explosive peroxides

WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Toluene	108-88-3	40
Tetrahydrofuran	109-99-9	40
Bromo(p-chlorophenyl)magnesium	873-77-8	20

#### 4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Call a physician

immediately.

**Inhalation** If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately. Risk of serious damage to the lungs (by

aspiration).

**Ingestion** Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately. Call a physician or poison control center

immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and

effects

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system

depression

Notes to Physician Treat symptomatically

#### 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Dry sand. Limestone powder, dry clay, approved class D extinguishers.

Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media Water, Carbon dioxide (CO2), Foam

Flash Point -21 °C / -5.8 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

No data available Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen halides. Chlorine. Magnesium oxides. Bromine. Benzene. Hydrogen chloride gas.

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

NFPA
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Health	Flammability	Instability	Physical hazards
3	3	2	W

#### Accidental release measures

**Personal Precautions** 

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges. Should not be released into the environment. Do not flush into surface water or sanitary

**Environmental Precautions** 

sewer system.

Up

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Do not expose spill to water. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and storage

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water. 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.

Flammables area. Keep under nitrogen. Keep away from heat, sparks and flame. Protect from direct sunlight. Store at room temperature. Keep from any possible contact with water. 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. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Water, Alcohols.

8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Toluene	TWA: 20 ppm	(Vacated) TWA: 100 ppm	IDLH: 500 ppm	TWA: 20 ppm
		(Vacated) TWA: 375 mg/m <sup>3</sup>	TWA: 100 ppm	
		Ceiling: 300 ppm	TWA: 375 mg/m <sup>3</sup>	
		(Vacated) STEL: 150 ppm	STEL: 150 ppm	
		(Vacated) STEL: 560 mg/m <sup>3</sup>	STEL: 560 mg/m <sup>3</sup>	
		TWA: 200 ppm		
Tetrahydrofuran	TWA: 50 ppm	(Vacated) TWA: 200 ppm	IDLH: 2000 ppm	TWA: 200 ppm
	STEL: 100 ppm	(Vacated) TWA: 590 mg/m <sup>3</sup>	TWA: 200 ppm	TWA: 590 mg/m <sup>3</sup>
	Skin	(Vacated) STEL: 250 ppm	TWA: 590 mg/m <sup>3</sup>	STEL: 250 ppm
		(Vacated) STEL: 735 mg/m <sup>3</sup>	STEL: 250 ppm	STEL: 735 mg/m <sup>3</sup>
		TWA: 200 ppm	STEL: 735 mg/m <sup>3</sup>	
		TWA: 590 mg/m <sup>3</sup>		

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

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.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the 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.

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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.

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

## 9. Physical and chemical properties

Physical State Liquid
Appearance Dark brown
Odor Irritating

Odor Threshold No information available

Melting Point/RangeNo data availableBoiling Point/RangeNo information availableFlash Point-21 °C / -5.8 °FEvaporation RateNo information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper<br/>LowerNo data available<br/>No data availableVapor PressureNo information availableVapor DensityNo information available

Specific Gravity 1.000

Solubility Reacts violently with water

No data available

No information available

Partition coefficient; n-octanol/water Autoignition Temperature

Decomposition TemperatureNo information availableViscosityNo information available

## 10. Stability and reactivity

Reactive Hazard Yes.

Stability May form explosive peroxides. Moisture sensitive. Light sensitive. Reacts violently with

water, liberating extremely flammable gases. Air sensitive.

**Conditions to Avoid**Keep away from open flames, hot surfaces and sources of ignition. Exposure to light.

Incompatible products. Exposure to air or moisture over prolonged periods. Exposure to

moist air or water. Exposure to moisture.

Incompatible Materials Acids, Water, Alcohols

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen halides, Chlorine, Magnesium

oxides, Bromine, Benzene, Hydrogen chloride gas

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing. Reacts violently with water.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Vapor LC50Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluene	> 5000 mg/kg (Rat)	LD50 = 12000 mg/kg ( Rabbit )	26700 ppm (Rat) 1 h
		,	., , ,
Tetrahydrofuran	1650 mg/kg ( Rat )	> 2000 mg/kg (Rabbit)	180 mg/L (Rat) 1 h
•	2 0 ( )		53.9 mg/L ( Rat ) 4 h

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

**Sensitization** No information available

Carcinogenicity Limited evidence of a carcinogenic effect. The table below indicates whether each agency

has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Toluene	108-88-3	Not listed				
Tetrahydrofuran	109-99-9	Group 2B	Not listed	A3	X	A3
Bromo(p-chlorophenyl)	873-77-8	Not listed				
magnesium						

ACGIH: (American Conference of Governmental Industrial

Hygienists)

A2 - Suspected

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

SUSPECT REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH MAY INJURE **Reproductive Effects** 

UNBORN CHILD (CAUSE BIRTH DEFECTS) (BASED ON ANIMAL DATA).

**Developmental Effects** No information available.

Teratogenic effects have occurred in experimental animals. **Teratogenicity** 

Respiratory system Central nervous system (CNS) STOT - single exposure Liver Kidney Heart Neurological effects Eyes Ears STOT - repeated exposure

**Aspiration hazard** No information available

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness,

nausea and vomiting: Causes central nervous system depression

#### **Endocrine Disruptor Information**

Component	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
Tetrahydrofuran	Group III Chemical	Not applicable	Not applicable

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms. Reacts with water so no ecotoxicity data for the substance is available.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Toluene	EC50: = 12.5 mg/L, 72h static (Pseudokirchneriella subcapitata) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)	50-70 mg/L LC50 96 h 5-7 mg/L LC50 96 h 15-19 mg/L LC50 96 h 28 mg/L LC50 96 h 12 mg/L LC50 96 h	EC50 = 19.7 mg/L 30 min	EC50: = 11.5 mg/L, 48h (Daphnia magna) EC50: 5.46 - 9.83 mg/L, 48h Static (Daphnia magna)
Tetrahydrofuran	Not listed	2160 mg/l LC50 = 96 h Pimephales promelas Leuciscus idus: LC50: 2820 mg/L/48h	Not listed	EC50 48 h 3485 mg/l EC50: >10000 mg/L/24h

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

**Mobility** 

. Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment.

Component	log Pow
Toluene	2.73
Tetrahydrofuran	0.45

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Toluene - 108-88-3	U220	-
Tetrahydrofuran - 109-99-9	U213	-

### 14. Transport information

DOT

UN3399 **UN-No** 

**Proper Shipping Name** Organometallic substance, liquid, water-reactive, flammable

**Technical Name** Tetrahydrofuran, Toluene

**Hazard Class** 4.3 **Packing Group** 

TDG

**UN-No** UN3399

**Proper Shipping Name** Organometallic substance, liquid, water-reactive, flammable

**Hazard Class** 4.3 **Subsidiary Hazard Class** 3

**Packing Group** 

IATA

UN3399 **UN-No** 

**Proper Shipping Name** Organometallic substance, liquid, water-reactive, flammable

**Hazard Class** 4.3 **Subsidiary Hazard Class** 3 **Packing Group** 

IMDG/IMO

UN-No UN3399

**Proper Shipping Name** ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE

**Hazard Class** 4.3 **Subsidiary Hazard Class** 3 **Packing Group** 

## 15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Toluene	108-88-3	X	ACTIVE	-
Tetrahydrofuran	109-99-9	X	ACTIVE	-
Bromo(p-chlorophenyl)magnesium	873-77-8	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export

Component	CAS No	TSCA 12(b) - Notices of Export
Tetrahydrofuran	109-99-9	Section 4, 1 % de minimus concentration

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL

Toluene	108-88-3	Χ	-	203-625-9	Χ	Χ	Х	Χ	Χ	KE-33936
Tetrahydrofuran	109-99-9	Х	-	203-726-8	Χ	Х	Х	Х	Х	KE-33454
Bromo(p-chlorophenyl)magnesium	873-77-8	-	-	212-853-8	-	-	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

#### **SARA 313**

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Toluene	108-88-3	40	1.0

## SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

OTTA (Olcail Hatel Act)				
Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Toluene	X	1000 lb	X	X

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Toluene	X		-

**OSHA** - Occupational Safety and

Health Administration

Not applicable

**CERCLA** 

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Toluene	1000 lb 1 lb	-
Tetrahydrofuran	1000 lb	-

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category	
Toluene	Toluene 108-88-3		-	Developmental	
Tetrahydrofuran	T : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	Carcinogen	

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Toluene	X	X	X	X	X
Tetrahydrofuran	X	Х	Х	-	Х

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

#### Authorisation/Restrictions according to EU REACH

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
	Toluene	108-88-3	-	Use restricted. See item 48. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-
	Tetrahydrofuran	109-99-9	-	Use restricted. See item 75. (see link for restriction details)	-
ł	Bromo(p-chlorophenyl)magnesium	873-77-8	-	- uetalis)	-

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Toluene	108-88-3	Listed	Not applicable	Not applicable	Not applicable
Tetrahydrofuran	109-99-9	Listed	Not applicable	Not applicable	Not applicable
Bromo(p-chlorophenyl)magne	873-77-8	Not applicable	Not applicable	Not applicable	Not applicable
sium					

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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Toluene	108-88-3	Not applicable	Not applicable	Not applicable	Annex I - Y42
Tetrahydrofuran	109-99-9	Not applicable	Not applicable	Not applicable	Not applicable
Bromo(p-chlorophenyl)magne sium	873-77-8	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Regulatory Affairs

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

### 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 SDS**