

# SAFETY DATA SHEET

Revision Date 27-Jun-2018 Revision Number 4

## 1. Identification

Product Name TB Kinyoun AFB Stain Kit

Cat No.: R40112

**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

Remel

12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730

Fax:1-800-621-8251

## **Emergency Telephone Number**

INFOTRAC - 24 Hour Number:

1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

# 2. Hazard(s) identification

### Classification

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

Flammable liquids
Corrosive to metals
Corrosive to metals
Cotegory 1
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Category 2
Caregory 1
Germ Cell Mutagenicity
Caregory 2
Carcinogenicity
Category 2
Category 1
Specific target organ toxicity (single exposure)
Category 2
Category 2

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

## Label Elements

### Signal Word

Danger

### **Hazard Statements**

Highly flammable liquid and vapor May be corrosive to metals Causes skin irritation Causes serious eye damage Suspected of causing genetic defects May cause cancer

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May cause damage to organs



## **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

Wash face, hands and any exposed skin thoroughly after handling

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

Do not eat, drink or smoke when using this product

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 only in original container

### Response

IF exposed or concerned: Get medical attention/advice

#### Skin

If skin irritation occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Spills

Absorb spillage to prevent material damage

## Storage

Store locked up

Store in a well-ventilated place. Keep cool

Store in corrosive resistant polypropylene container with a resistant inliner

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

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

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Phenol	108-95-2	3
Ethyl alcohol	64-17-5	65
Methyl alcohol	67-56-1	1
Methylene blue	61-73-4	0.3
Isopropyl alcohol	67-63-0	1.67
Hydrochloric acid	7647-01-0	1
C.I. Basic red 9 monohydrochloride	569-61-9	1

### 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. In

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. 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.

Immediate medical attention is required.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

None reasonably foreseeable. Causes severe eye damage. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Cool closed containers exposed to fire with water spray.

No information available

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

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

### Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. 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**

Thermal decomposition can lead to release of irritating gases and vapors

# **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

HealthFlammabilityInstabilityPhysical hazards330N/A

## 6. Accidental release measures

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Keep people away from

and upwind of spill/leak. Evacuate personnel to safe areas.

Refer to protective measures listed in Sections 7 and 8

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Up

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# 7. Handling and storage

Handling Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. 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. Use only under a

chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

**Storage** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place. Keep in properly labeled containers. Keep away from heat and

sources of ignition.

# 8. Exposure controls / personal protection

## **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Phenol	TWA: 5 ppm	(Vacated) TWA: 5 ppm	IDLH: 250 ppm	TWA: 5 ppm
	Skin	(Vacated) TWA: 19 mg/m <sup>3</sup>	TWA: 5 ppm	
		Skin	TWA: 19 mg/m <sup>3</sup>	
		TWA: 5 ppm	Ceiling: 15.6 ppm	
		TWA: 19 mg/m <sup>3</sup>	Ceiling: 60 mg/m <sup>3</sup>	
Ethyl alcohol	STEL: 1000 ppm	(Vacated) TWA: 1000 ppm	IDLH: 3300 ppm	STEL: 1000 ppm
-		(Vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm	
		TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>	
		TWA: 1900 mg/m <sup>3</sup>		
Methyl alcohol	TWA: 200 ppm	(Vacated) TWA: 200 ppm	IDLH: 6000 ppm	TWA: 200 ppm
-	STEL: 250 ppm	(Vacated) TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm	STEL: 250 ppm
	Skin	(Vacated) STEL: 250 ppm	TWA: 260 mg/m <sup>3</sup>	
		(Vacated) STEL: 325 mg/m <sup>3</sup>	STEL: 250 ppm	
		Skin	STEL: 325 mg/m <sup>3</sup>	
		TWA: 200 ppm		
		TWA: 260 mg/m <sup>3</sup>		
Isopropyl alcohol	TWA: 200 ppm	(Vacated) TWA: 400 ppm	IDLH: 2000 ppm	TWA: 200 ppm
	STEL: 400 ppm	(Vacated) TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm	STEL: 400 ppm
		(Vacated) STEL: 500 ppm	TWA: 980 mg/m <sup>3</sup>	
		(Vacated) STEL: 1225	STEL: 500 ppm	
		mg/m³	STEL: 1225 mg/m <sup>3</sup>	
		TWA: 400 ppm		
		TWA: 980 mg/m <sup>3</sup>		
Hydrochloric acid	Ceiling: 2 ppm	Ceiling: 5 ppm	IDLH: 50 ppm	Ceiling: 2 ppm
		Ceiling: 7 mg/m <sup>3</sup>	Ceiling: 5 ppm	
		(Vacated) Ceiling: 5 ppm	Ceiling: 7 mg/m <sup>3</sup>	
		(Vacated) Ceiling: 7 mg/m <sup>3</sup>		

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting/equipment.

### Personal Protective Equipment

**Eye/face Protection** Tightly fitting safety goggles. Face-shield.

**Skin and body protection** Long sleeved clothing.

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.

**Hygiene Measures** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before

re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use. Wear suitable

gloves and eye/face protection.

## 9. Physical and chemical properties

Physical State Liquid

AppearanceNo information availableOdorNo information availableOdor ThresholdNo information availablepHNo information available

Melting Point/Range No data available

Boiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNo information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper
Lower
No data available
No data available
No data available
No information available
Vapor Density
No information available
Specific Gravity
No information available
No information available
No information available
No information available
No data available

Autoignition Temperature

No information available

No information available

Viscosity No information available

VOC Content(%) 70.67

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

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

moisture over prolonged periods.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions**None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

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
Phenol	LD50 = 340 mg/kg ( Rat ) LD50 = 317 mg/kg ( Rat )	LD50 = 630 mg/kg(Rabbit)	LC50 = 316 mg/m <sup>3</sup> (Rat) 4 h
Ethyl alcohol	LD50 = 7060 mg/kg (Rat)	Not listed	20000 ppm/10H ( Rat )
Methyl alcohol	Calc. ATE 60 mg/kg LD50 > 1187 – 2769 mg/kg ( Rat )	Calc. ATE 60 mg/kg LD50 = 17100 mg/kg(Rabbit)	Calc. ATE 0.6 mg/L (vapours) or 0.5 mg/L (mists) LC50 = 128.2 mg/L ( Rat ) 4 h
Methylene blue	LD50 = 1180 mg/kg (Rat)	Not listed	Not listed
Isopropyl alcohol	5840 mg/kg ( Rat )	13900 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat)4 h
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	1.68 mg/L (Rat)1 h

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation No information available

Sensitization No information available

Carcinogenicity This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). The table below indicates whether each agency has

listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenol	108-95-2	Not listed	Not listed	Not listed	Not listed	Not listed
Ethyl alcohol	64-17-5	Group 1	Known	A3	Χ	A3
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed
Methylene blue	61-73-4	Not listed	Not listed	Not listed	Not listed	Not listed
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	Not listed
Hydrochloric acid	7647-01-0	Not listed	Not listed	Not listed	Not listed	Not listed
C.I. Basic red 9 monohydrochloride	569-61-9	Group 2B	Reasonably Anticipated	Not listed	Х	Not listed

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

ACGIH: (American Conference of Governmental Industrial

Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed

tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

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

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Phenol	EC50: 187 - 279 mg/L, 72h static (Desmodesmus subspicatus) EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: = 46.42 mg/L, 96h (Pseudokirchneriella subcapitata)	4-7 mg/L LC50 96 h 32 mg/L LC50 96 h	EC50 = 23.28 mg/L 5 min	EC50: 10.2 - 15.5 mg/L, 48h (Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48h Static (Daphnia magna)
Ethyl alcohol	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min	
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h		EC50 > 10000 mg/L 24h
Isopropyl alcohol	EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	LC50: = 11130 mg/L, 96h static (Pimephales promelas) LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 9640 mg/L, 96h flow-through (Pimephales promelas)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h
Hydrochloric acid	-	282 mg/L LC50 96 h Gambusia affinis mg/L LC50 48 h Leucscus idus	-	56mg/L EC50 72h Daphnia

Persistence and Degradability No information available

**Bioaccumulation/ Accumulation** No information available.

Mobility .

Component	log Pow
Phenol	1.5
Ethyl alcohol	-0.32
Methyl alcohol	-0.74
Isopropyl alcohol	0.05

# 13. Disposal considerations

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### **Waste Disposal Methods**

Should not be released into the environment.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Phenol - 108-95-2	U188	-
Methyl alcohol - 67-56-1	U154	=

# 14. Transport information

DOT

UN-No 2924

Proper Shipping Name FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.

Proper technical name (Ethanol, Hydrochloric Acid)

Hazard Class 3,8 Packing Group III

TDG

UN-No 2924

Proper Shipping Name FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.

Proper technical name (Ethanol, Hydrocholoric Acid)

Hazard Class 3,8 Packing Group III

IATA

UN-No UN2924

Proper Shipping Name FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.

Hazard Class 3,8 Packing Group III

IMDG/IMO

UN-No UN2924

**Proper Shipping Name** FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.

Hazard Class 3,8 Packing Group III

# 15. Regulatory information

## **United States of America Inventory**

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Phenol	108-95-2	Х	ACTIVE	-
Ethyl alcohol	64-17-5	Х	ACTIVE	-
Methyl alcohol	67-56-1	Х	ACTIVE	-
Methylene blue	61-73-4	Х	ACTIVE	-
Isopropyl alcohol	67-63-0	Х	ACTIVE	-
Hydrochloric acid	7647-01-0	Х	ACTIVE	-
C.I. Basic red 9 monohydrochloride	569-61-9	Х	ACTIVE	-

### Legend:

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

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## **International Inventories**

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Phenol	108-95-2	X	-	203-632-7	Х	X	Х	Х	KE-28209
Ethyl alcohol	64-17-5	Х	-	200-578-6	X	X	Х	Х	KE-13217
Methyl alcohol	67-56-1	Х	-	200-659-6	Χ	X	Х	Х	KE-23193
Methylene blue	61-73-4	Χ	-	200-515-2	Χ	•	Х	Х	KE-06942

Isopropyl alcohol	67-63-0	Х	-	200-661-7	Х	X	Х	Х	KE-29363
Hydrochloric acid	7647-01-0	Х	-	231-595-7	Х	X	Х	Х	KE-20189
C.I. Basic red 9	569-61-9	Х	-	209-321-2	Х	-	-	Х	-
monohydrochloride									

### **U.S. Federal Regulations**

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenol	108-95-2	3	1.0
Methyl alcohol	67-56-1	1	1.0
Isopropyl alcohol	67-63-0	1.67	1.0
Hydrochloric acid	7647-01-0	1	1.0

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

**CWA (Clean Water Act)** 

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	
Phenol	X	1000 lb	Х	X	
Hydrochloric acid	X	5000 lb	-	-	

## Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Phenol	X		-
Methyl alcohol	X		-
Hydrochloric acid	X		-

**OSHA** - Occupational Safety and Health Administration

**OSHA** - United States Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrochloric acid	-	TQ: 5000 lb

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
Phenol	1000 lb	1000 lb
Methyl alcohol	5000 lb	-
Hydrochloric acid	5000 lb	5000 lb

**California Proposition 65** 

This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Ethyl alcohol	64-17-5	Development (alcoholic	-	Developmental
,		beverages only)		Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental
C.I. Basic red 9	569-61-9	Carcinogen	3 μg/day	Carcinogen
monohydrochloride				

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

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phenol	X	X	X	X	X
Ethyl alcohol	X	X	X	X	X
Methyl alcohol	X	X	X	X	X
Isopropyl alcohol	X	X	X	-	X
Hydrochloric acid	X	X	X	X	X
C.I. Basic red 9	Х	Х	-	X	-

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monohydrochloride			

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

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

## U.S. Department of Homeland

This product contains the following DHS chemicals:

**Security** Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Hydrochloric acid	Release STQs - 15000lb (concentration >=37%)
	Release STQs - 5000lb (anhydrous)
	Theft STQs - 500lb (anhydrous)

Other International Regulations

Mexico - Grade No information available

16. Other information	
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Prepared By Regulatory Affairs

Thermo Fisher Scientific

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**Revision Date** 27-Jun-2018 **Print Date** 27-Jun-2018

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**