

SAFETY DATA SHEET

Issue Date 12-Sep-2018

Revision Date 23-Jan-2023

Version 1.5

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1. IDENTIFICATION

<u>Product identifier</u> Product Name	Lead TNT Reagent A				
<u>Other means of identification</u> Product Code(s)	TNT850A				
Safety data sheet number	M00421				
Recommended use of the chemical and restrictions on use					

Recommended UseLaboratory reagent.Uses advised againstConsumer use.Restrictions on useFor Laboratory Use Only.

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Details of the supplier of the safety data sheet

Manufacturer Address

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word Warning

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Hazard statements

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements

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

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 Rinse mouth

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

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

P201 - Obtain special instructions before use

- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P405 Store locked up

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

Other Hazards Known

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Chemical Name
Chemical Family
Formula
CAS No
Chemical nature

Sodium Salicylate Salts of Organic Acids. C7H₅O₃Na 54-21-7 Aqueous solution of organic salts.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Sodium salicylate	54-21-7	100%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

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	while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.					
Skin contact	Wash skin with soap and water.					
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.					
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.					
Most important symptoms and effe	ects, both acute and delayed					
Symptoms	Burning sensation.					
Indication of any immediate medica	al attention and special treatment needed					
Note to physicians	Treat symptomatically.					
	5. FIRE-FIGHTING MEASURES					
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.					
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.					
Specific hazards arising from the chemical	No information available.					
Hazardous combustion products	May emit acrid smoke and fumes. Carbon monoxide, Carbon dioxide.					
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.					
	6. ACCIDENTAL RELEASE MEASURES					
U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.					
Personal precautions, protective e	quipment and emergency procedures					
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.					
Other Information	Refer to protective measures listed in Sections 7 and 8.					
Environmental precautions						
Environmental precautions	See Section 12 for additional ecological information.					
Methods and material for containm	ent and cleaning up					
Mathada far containment	Dravant further lockage or apillage if onfe to do en					

Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

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Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.					
Reference to other sections	See section 8 for more information. See section 13 for more information.					
	7. HANDLING AND STORAGE					
Precautions for safe handling						
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.					
Conditions for safe storage, includ	ling any incompatibilities					
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.					
Flammability class	Not applicable					
	POSURE CONTROLS/PERSONAL PROTECTION					
<u>Control parameters</u> Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies					
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.					
Individual protection measures, su Respiratory protection	Ich as personal protective equipment No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.					
Hand Protection	Wear suitable gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. Barrier creams may help to protect the exposed areas of skin.					

- **Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.
- Skin and body protection Wear suitable protective clothing.
- **General Hygiene Considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
- **Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Physical state Appearance Odor	powder Odorless	Solid		Color Odor threshold	white Not applical	ble
Property_		<u> </u>	Values			Remarks • Method
Molecular weigh	t		160.10 g/mole			
рН		(6.5			10% @ 20°C
Melting point / fr	eezing point	2	200 °C / 392	2°F		
Initial boiling poi	nt and boiling rang	je 2	237 °C / 458	3.6 °F		
Evaporation rate		I	Not applicable			
Vapor pressure		I	Not applicable			
Relative vapor de	ensity		No data availal	ble		
Specific Gravity		(0.32			
Partition coeffici	ent	I	log K _{ow} = 2.26			
Soil Organic Car Coefficient	bon-Water Partitio	n I	log K _{oc} = 1.34			
Autoignition tem	perature	;	> 250 °C /	482 °F		
Decomposition t	emperature	I	No data availab	le		
Dynamic viscosi	ty	I	Not applicable			
Kinematic viscos	sity	I	Not applicable			

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	1000000 mg/L	20 °C / 68 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Soluble	> 1000 mg/L	25 °C / 77 °F
Glycerol	Soluble	> 1000 mg/L	25 °C / 77 °F
Methanol	Completely soluble	206000 mg/L	25 °C / 77 °F
Petroleum Ether	Soluble	1800 mg/L	25 °C / 77 °F

Other information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable Not applicable

Volatile Organic Compounds (VOC) Content This Product is by Weight 100% an Individual Pure Chemical Substance

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium salicylate	54-21-7	No data available	-
y			

Explosive properties

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
Flammability Limit in Air Upper flammability limit: Lower flammability limit:	No data available No data available
Oxidizing properties	No data available.
Bulk density	No data available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

<u>Chemical stability</u> Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Causes serious eye irritation. May cause redness, itching, and pain.

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eye contact

EN / AGHS

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Skin contact	May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.
Symptoms	May cause redness and tearing of the eyes.

Acute toxicity Harmful if swallowed

Mixture

If available, see ingredient data below.

Ingredient Acute Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium salicylate	Rat	930 mg/kg	None reported	Behavioral	RTECS
(100%)	LD50			Convulsions or effect on seizure	
CAS#: 54-21-7				threshold	
				Muscle contraction or spasticity	

Unknown Acute Toxicity

100% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

Not applicable

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Skin corrosion/irritation

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

Mixture

If available, see ingredient data below.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	OECD Test 404: Acute Dermal Corrosion/Irritation	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA

Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

Mixture

If available, see ingredient data below.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		50 mg	6 hours	Eye irritant	ECHA

Respiratory or skin sensitization

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

Mixture

If available, see ingredient data below.

Ingredient Sensitization Data

Test data reported below.

Skin Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	Based on human experience	Human	Not confirmed to be a skin sensitizer	Vendor SDS

Respiratory Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	Based on human experience	Human	Not confirmed to be a respiratory sensitizer	Vendor SDS

STOT - single exposure

May cause respiratory irritation.

Mixture

If available, see ingredient data below.

Oral Exposure Route

Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	Human LD⊾	700 mg/kg	None reported	Lungs, Thorax, or Respiration Dyspnea	RTECS

STOT - repeated exposure

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

Mixture

If available, see ingredient data below.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

Carcinogenicity

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

Mixture

If available, see ingredient data below.

Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Sodium salicylate	54-21-7	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

Germ cell mutagenicity

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

Mixture invitro Data

If available, see ingredient data below.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	OECD 471	Salmonella typhimurium	0.158 mg/plate	48 hours	Negative	No information available

Mixture invivo Data

If available, see ingredient data below.

Substance invivo Data

Test data reported below.

Oral Exposure Route

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	DNA damage	Rat	30 mg/L	None reported	Positive test result for mutagenicity	RTECS

Reproductive toxicity

Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Mixture

Г

No data available.

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Ingredient Reproductive Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	Rat TD∟₀	40 mg/kg	1 days	Effects on Newborn Stillbirth	RTECS

Aspiration hazard

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

<u>Mixture</u>

Aquatic Acute Toxicity If available, see ingredient data below.

Aquatic Chronic Toxicity

If available, see ingredient data below.

Substance

Aquatic Acute Toxicity

Test data reported below.

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium salicylate (100%) CAS#: 54-21-7	96 hours	Pimephales promelas	LC50	1370 mg/L	GESTIS

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Mixture No data available.

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE **Mixture** No data available.

Partition coefficient

 $\log K_{ow} = 2.26$

<u>Mobility</u>

Soil Organic Carbon-Water Partition Coefficient log Koc = 1.34

EN / AGHS

Other adverse effects

Endocrine-disrupting potential

	13. DISPOSAL CONSIDERATIONS
Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	Not applicable
Special instructions for disposal	Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Flush system with plenty of water. Check with national, local municipal and state authorities and waste contractors for pertinent local information on the disposal of this article.
	14. TRANSPORT INFORMATION
DOT	Not regulated

13. DISPOSAL CONSIDERATIONS

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

Additional information Not applicable

15. REGULATORY INFORMATION

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substances Inventory
AICS - Australian Inventory of Chemical Substances
NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable NFPA and HMIS Classifications

NFPA	Health hazards - 2	Flammability - 1	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 2 - *	Flammability - 1	Physical hazards - 0	Personal protection - X - I

Key or legend to abbreviations and acronyms used in the safety data sheet

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ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS		ATSDR (Agency for T CCRIS (Chemical Car CDC (Center for Disea CEPA (Canadian Env CICAD (Concise Inter ECHA (The European EEA (European Enviro EPA (Environmental F ERMA (New Zealands Estimation through EC FDA (Food & Drug Ad GESTIS (Information Insurance) HSDB (Hazardous Su INERIS (The National IPCS INCHEM (Intern IUCLID (The Internation Japan National Institute NIOSH (National Institute NIOSH (National Institute IOSH (List of Lists - Ar no data	oxic Substances and rcinogenesis Resear ase Control) ironmental Protectio national Chemical A chemicals Agency) onment Agency) Protection Agency) s Environmental Risk COSARS v1.11 part of Industrial Environme astional Programme onal Uniform Chemic te of Technology and s of Health) tute for Occupational international Chem	ch Information System) n Agency) ssessment Documents) < Management Authority) of the Estimation Programs Interface (EPI) Suite™ ous Substances of the German Social Accident () ent and Risks Institute) on Chemical Safety) cal Information Database) d Evaluation (NITE) I Safety and Health) ical Regulatory Database)		
NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health OSHA (Occupational Safety and Health Administration of the US Department of Labor) PEEN (Pan European Ecological Network) RTECS (Registry of Toxic Effects of Chemical Substances) SIDS (Screening Information Dataset) for High Volume Chemicals The Finnish Environment Institute (SYKE) USDA (United States Department of Agriculture) USDC (United States Department of Commerce) WHO (World Health Organization)				
Legend - Section	n 8: EXPOSURE CO	NTROLS/PERSONAL	PROTECTION			
TWA	TWA (time-weighte	ed average)	STEL	STEL (Short Term Exposure Limit)		
MAC	Maximum Allowab	le Concentration	Ceiling	Ceiling Limit Value		
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.		
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant		
Prepared By		Hach Product Complia	ance Department			
Issue Date		12-Sep-2018				
Revision Date		23-Jan-2023				
Revision Note		None				

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Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet