

Safety Data Sheet
Acid Shield Filler Hardener - Part B

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Acid Shield Filler Hardener – Part B
Contains Diethylenetriamine, p-tert-Butyl phenol.

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

Recommended use: Hardener solution
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier: NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992
E-mail address: europe@neptunerresearch.com

1.4. Emergency telephone number

Emergency telephone number: +48 33 488 12 85 (only available during office hours)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute oral toxicity – Category 4
Acute dermal toxicity – Category 4
Skin Corrosion/Irritation – Category 1B
Skin Sensitization – Category 1
Eye irritation – Category 2A
STOT-repeated exposure – Category 2
Hazardous to the aquatic environment – Acute Hazard – Category 1
Hazardous to the aquatic environment – Long Term Hazard Category 1

Physical hazards: None

2.2 Label elements

Hazard pictograms:

Safety Data Sheet
Acid Shield Filler Hardener - Part B



Signal word: Danger

Hazard statements:

- H302 + H312 Harmful if swallowed or in contact with skin.
- H314 - Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement:

- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor/ physician
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P363 - Wash contaminated clothing before reuse

2.3. Other information

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Alkylated phenolic polyamine	614-465-8	68413-29-6	35 - 50	Skin Corr. 1A (H314)	Not data available
1-(2-Aminoethyl) piperazine	205-411-0	140-31-8	8 – 15	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314)	Not data available

Safety Data Sheet
Acid Shield Filler Hardener - Part B

				Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	
p-tert-butyl phenol	202-679-0	98-54-4	6 – 12	Skin Sens. 1 (H317)	Not data available
m-Xylene-alpha, alpha'-diamine	216-032-5	1477-55-0	3.6 – 7.0	Acute Tox. 4 (H312) Skin Sens. 1 (H317)	Not data available
Titanium dioxide	236-675-5	13463-67-7	1 – 3	-	Not data available
Diethylenetriamine	203-865-4	111-40-0	< 2	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Skin Sens. 1 (H317)	Not data available
3-(Triethoxysilyl) propylamine	213-048-4	919-30-2	<2	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	Not data available
Barium sulfate	231-784-4	7727-43-7	<1.5	-	Not data available
Nonylphenol	246-672-0	25154-52-3	0.5 – 1.2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First Aid Measures

4.1. Description of first-aid measures

First aid measures for accidental

General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Skin contact: Remove contaminated clothing. Wipe excess from skin. Lather with waterless skin cleaner and then wash with warm soap and water. If irritation occurs, get medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion: Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms/effects, acute and delayed: Itching. Rashes. Corrosive. Serious eye irritation or damage.

Safety Data Sheet
Acid Shield Filler Hardener - Part B

4.3 Indication of immediate medical attention and special treatment needed:

Notes to physician: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, dry chemical, water spray, alcohol-resistant foam

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 Advice for firefighters: As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Use personal protective equipment (See Section) to prevent any contamination of skin, eyes and personal clothing.

Emergency procedures: Remove ignition sources. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Deny entry to unauthorized and unprotected personnel. Avoid breathing vapors or mists. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

6.1.2 For emergency responders: Use appropriate personal protective clothing. Use gloves and safety glasses.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Avoid release to the environment. See Section 12 for additional Ecological Information.

6.3. Methods and materials for containment and cleaning up

6.3.1 For containment: Cover drains. Prevent further leakage or spillage if safe to do so.

6.3.2 For cleaning up: Use personal protective equipment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Safety Data Sheet
Acid Shield Filler Hardener - Part B

6.3.3 Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 12 for additional information.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

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.

7.2 Conditions for safe storage including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

7.3 Specific end use(s)

Exposure scenario: No information available.

Other guidelines: No information available

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits

Component	Exposure limits				
	European Union	United Kingdom	France	Spain	Germany

Safety Data Sheet
Acid Shield Filler Hardener - Part B

p-tert-butyl phenol 98-54-4					MAK: 0.080 ppm MAK: 0.5mg/m ³ Ceiling/peak: 0.16 ppm Ceiling/peak: 1.0 mg/m ³ TWA: 0.080 ppm TWA: 0.5mg/m ³
m-Xylene-alpha, alpha'-diamine 1477- 55-0			STEL: 0.1 mg/m ³		
Titanium dioxide 13463-67-7		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	
Diethylenetriamine 111-40-0		STEL: 3 ppm STEL: 12.9 mg/m ³ TWA: 1 ppm TWA: 4.3 mg/m ³ Skin	VME: 1 ppm VME: 4 mg/m ³	S* VLA-ED: 1 ppm VLA-ED: 4.3 mg/m ³	TWA: 0.05 mg/m ³ Ceiling/Peak: 4 mg/m ³
Barium sulfate 7727-43-7		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³			TWA: 4mg/m ³ TWA: 1.5mg/m ³ Ceiling/peak: 4 mg/m ³
p-tert-Butyl phenol 98-54-4		TWA: 10 mg/m ³			2 mg/L urine end of shift PTBP
Component	Italy	Portugal	Netherlands	Finland	Denmark

Safety Data Sheet
Acid Shield Filler Hardener - Part B

p-tert-butyl phenol 98-54-4					TWA: 0.08 ppm TWA: 0.5 mg/m ³ Skin
m-Xylene-alpha, alpha'-diamine 1477-55-0		Ceiling: 0.1 mg/m ³		STEL: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ Skin	Ceiling: 0.02 ppm Ceiling: 0.1 mg/m ³ Skin
Titanium dioxide 13463-67-7		TWA: 10 mg/m ³			TWA: 6 mg/m ³
Diethylenetriamine 111-40-0		TWA: 1 ppm		TWA: 1 ppm TWA: 4.3 mg/m ³ STEL: 3 ppm STEL: 13 mg/m ³ Skin	TWA: 1 ppm TWA: 4 mg/m ³ Skin
3-(Triethoxysilyl) propylamine 919-30-2				TWA: 1 ppm TWA: 4.3 mg/m ³ STEL: 3 ppm STEL: 13 mg/m ³ Skin	
Barium sulfate 7727- 43-7		TWA: 10 mg/m ³			
Component	Austria	Switzerland	Poland	Norway	Ireland

Safety Data Sheet
Acid Shield Filler Hardener - Part B

p-tert-Butyl phenol 98-54-4	Skin STEL 0.4 ppm STEL 2.5 mg/m ³ MAK: 0.08 ppm MAK: 0.5 mg/m ³	STEL: 0.16 ppm STEL: 1.0 mg/m ³ MAK: 0.08 ppm MAK: 0.5 mg/m ³			
m-Xylene-.alpha., .alpha.`-diamine 1477-55-0	STEL 0.1 mg/m ³ TWA: 0.1 mg/m ³ Ceiling 0.1 mg/m ³	Skin TWA: 0.1 mg/m ³		Ceiling: 0.1 mg/m ³	
Titanium dioxide 13463-67-7	STEL 10 mg/m ³ TWA: 5 mg/m ³	TWA: 3 mg/m ³	STEL: 30 mg/m ³ TWA: 10.0 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
Diethylenetriamine 111-40-0	MAK: 1 ppm MAK: 4 mg/m ³	Skin MAK: 1 ppm MAK: 4 mg/m ³	NDSch: 12 mg/m ³ NDS: 4 mg/m ³ Skin	TWA: 1 ppm TWA: 4 mg/m ³ Skin STEL: 3 ppm STEL: 8 mg/m ³	TWA: 1 ppm TWA: 4 mg/m ³ Skin
Barium sulfate 7727-43-7				TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³
p-tert-Butyl phenol 98-54-4		2 mg/L urine end of shift, and after several shifts (for long-term exposures)			
Component	Romania	Slovakia	Latvia	Bulgaria	
p-tert-Butyl phenol 98-54-4 (6-12)		2 mg/L urine end of exposure or work shift p- tert- Butylphenol			

Safety Data Sheet
Acid Shield Filler Hardener - Part B

Derived no effect level: No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection: Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

8.2.2.2 Skin and body protection: Impervious clothing and impervious gloves.

8.2.2.3 Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

8.3 Environmental exposure controls: Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State: Solid (compressed)
Appearance: Off white
Odour: Pungent, amine
Odour threshold: No data available

<u>Property</u>	<u>Values</u>	<u>Remarks-Method</u>
pH:	No data available	None known
Melting point range:	No data available	None known
Boiling point/boiling range:	No data available	None known
Flash Point:	No data available	None known
Evaporation rate:	No data available	None known
Flammability (solid, gas):	No data available	None known
Upper/lower flammability or explosive limits:	No data available	None known
Vapour pressure:	No data available	None known
Vapour density:	No data available	None known
Relative density:	1.058 at 75 °F	Density Cup Method
Solubilities:	Insoluble in water	None known
Partition coefficient (n-octanol/water):	No data available	None known
Auto-ignition temperature:	No data available	None known
Decomposition temperature:	No data available	None known
Viscosity:	8,278,260 cP at 70 °F	Brookfield Viscometer
Explosive properties:	No data available	None known
Oxidizing properties:	No data available	None known

9.2 Other information

Safety Data Sheet
Acid Shield Filler Hardener - Part B

VOC Content (%):

No data available

None known

Section 10. Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: None under normal processing.

10.4 Conditions to avoid: Incompatible products. Excessive heat. Exposure to light. Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials: Strong oxidizing agents. Strong acids. Bases. Copper. Copper alloys.

10.6 Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Ammonia. Aldehydes. Ketones.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-(2-Aminoethyl) piperazine	= 2140 mg/kg (Rat)	= 880 mg/kg (Rabbit)	-
p-tert-Butyl phenol	= 2990 mg/kg (Rat)	= 2318 mg/kg (Rabbit)	-
m-Xylene-.alpha., .alpha.`-diamine	= 660 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 700 ppm (Rat) 1 h
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m ³
Diethylenetriamine	= 819 mg/kg (Rat)	= 672 mg/kg (Rabbit)	
3-(Triethoxysilyl) propylamine	= 1780 mg/kg (Rat)	= 4 mL/kg (Rabbit)	
Nonylphenol	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	

Skin corrosion/irritation: Corrosive. Harmful in contact with skin. Causes severe skin burns. May cause allergic skin reaction
Serious eye damage/irritation: Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness

Inhalation: May be harmful if inhaled

Ingestion: Harmful if swallowed. Ingestion of corrosive substances can cause burns of the upper digestive and respiratory tract.

Corrosivity: Causes severe skin burns and eye damage.

Safety Data Sheet
Acid Shield Filler Hardener - Part B

Respiratory or skin sensitization: May cause sensitization of susceptible persons. May cause sensitization by skin contact

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT- single exposure: No information available.

STOT- repeated exposure: May cause damage to organs through prolonged or repeated exposure

Aspiration hazard: No information available.

Section 12. Ecological Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
1-(2-Aminoethyl) piperazine	EC50 72 h: = 495 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 1950-2460 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1000 mg/L semi-static (Poecilia reticulata) LC50 96 h: >= 100 mg/L semi-static (Oncorhynchus mykiss)	EC50 > 10000 mg/L 17 h	EC50 48 h: = 32 mg/L (Daphnia magna)
p-tert-Butyl phenol	EC50 72 h: = 11.2 mg/L (Desmodesmus subspicatus)	LC50 96 h: 4.71-5.62 mg/L flow-through (Pimephales promelas) LC50 96 h: = 6.9 mg/L static (Cyprinus carpio)	EC50 = 0.21 mg/L 5 min	EC50 48 h: 3.4 - 4.5 mg/L Static (Daphnia magna) EC50 48 h: = 3.9 mg/L (Daphnia magna)
Diethylenetriamine	EC50 72 h: = 1164 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: = 345.6 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: = 592 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 1014 mg/L semi-static (Poecilia reticulata) LC50 96 h: = 248 mg/L static (Poecilia reticulata) LC50 96 h: = 430 mg/L semi-static (Leuciscus idus)	EC50 = 2000 mg/L 1 h EC50 = 96 mg/L 17 h	EC50 48 h: = 16 mg/L (Daphnia magna) EC50 24 h: = 37 mg/L (Daphnia magna)
Nonylphenol	EC50 96 h: = 0.41 mg/L (Pseudokirchneriella)	LC50 96 h: = 0.135 mg/L flow-through (Pimephales promelas)		EC50 48 h: 0.0874 - 0.124 mg/L semi-static (Daphnia)

Safety Data Sheet
Acid Shield Filler Hardener - Part B

	subcapitata) EC50 72 h: = 1.3 mg/L (Desmodesmus subspicatus)			magna) EC50 48 h: 0.17 - 0.21 mg/L Static (Daphnia magna) EC50 48 h: = 0.14 mg/L (Daphnia magna)
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12.1 Toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential:

Chemical Name	Log Pow
1-(2-Aminoethyl) piperazine	-1.48
p-tert-Butyl phenol	2.44
Nonylphenol	3.28

12.4 Mobility in soil: Adsorbs on soil.

12.5 Results of PBT and vPvB Assessment: No information available.

12.6 Other adverse effects

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
p-tert-Butyl phenol	Group II Chemical	-	Industrial chemical
Nonylphenol	Group II Chemical	Medium Exposure Concern	Industrial chemical

12.7 Additional information: No information available.

Section 13. Disposal Considerations

13.1 Waste treatment methods:

13.1.1 Product / Packaging disposal: Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes / waste designation according to LoW: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

13.1.2 Waste treatment-relevant information: Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13.1.3 Sewage disposal-relevant information: This product should not be allowed to enter drains, water courses or the soil.

Safety Data Sheet
Acid Shield Filler Hardener - Part B

13.1.4 Other disposal recommendations: Dispose of waste and residues in accordance with local authority requirements.

Section 14. Transport Information

DOT

UN-Number: UN2735
Proper Shipping Name: Amine, liquid, corrosive, n.o.s
Hazard Class: 8
Packing Group: II

IMDG/IMO

UN number: UN 2735
UN proper shipping name: Amines, liquid, corrosive, n.o.s.
Transport hazard class: Class 8.
Packing group: III

RID

UN number: UN 2735
UN proper shipping name: Amines, liquid, corrosive, n.o.s.
Transport hazard class: Class 8.
Packing group: III

ADR

UN number: UN 2735
UN proper shipping name: Amines, liquid, corrosive, n.o.s.
Transport hazard class: Class 8.
Packing group: III

ICAO

UN number: UN 2735
UN proper shipping name: Amines, liquid, corrosive, n.o.s.
Transport hazard class: Class 8.
Packing group: III

IATA

UN-Number: UN2735
Proper Shipping Name: Amine, liquid, corrosive, n.o.s
Hazard Class: 8
Packing Group: II

ERG Code: 8L

Safety Data Sheet
Acid Shield Filler Hardener - Part B

Section 15. Regulatory Information

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

International Inventories

TSCA:	Substances comply or are exempt
EINECS/ELINCS:	Not determined
DSL/NDSL:	Not determined
PICCS:	Not determined
ENCS:	Not determined
IECSC:	Not determined
AICS:	Not determined
KECL:	Not determined

Legend

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.

Section 16. Other Information

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

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Key Legend Information:

N/A – Not Applicable



Safety Data Sheet
Acid Shield Filler Hardener - Part B

ND – Not Determined

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

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