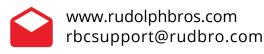


1-800-375-0605 Option 8 for 24/7 Service



SAFETY DATA SHEET



Enriching lives through innovation

ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 02/21/2022 400000004944 Date of first issue: 08/30/2017 1.2

Print Date 05/04/2022

SECTION 1. IDENTIFICATION

: ARALDITE® 2015-1 HARDENER Product name

Manufacturer or supplier's details

Company name of supplier

Address

Telephone

: Huntsman Advanced Materials Americas LLC

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA) Non-Emergency: (800) 257-5547

E-mail address of person

responsible for the SDS

: Global_Product_EHS_AdMat@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Category 1A

Serious eye damage : Category 1

Skin sensitisation : Category 1

Short-term (acute) aquatic

hazard

: Category 3

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:



ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 400000004944

Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

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

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 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/ doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Amines

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
barium sulfate	7727-43-7	30 - 50
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	30 - 50
bis(isopropyl)naphthalene	38640-62-9	5 - 10
Triethylenetetramine, propoxylated	26950-63-0	5 - 10
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	5 - 10







ARALDITE® 2015-1 HARDENER

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/11/2019

 1.2
 02/21/2022
 400000004944
 Date of first issue: 08/30/2017

Print Date 05/04/2022

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2 1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

None known.

Protection of first-aiders :

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.









ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 400000004944 Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

Notes to physician

: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

> Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon oxides

Nitrogen oxides (NOx)

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This Further information

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Neutralise with acid.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.









Enriching lives through innovation

ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2 1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

None known.

Protection of first-aiders

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.









ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 40000004944

Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

dust fraction)

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Recommended Filter type:

Combined particulates and organic vapour type

Filter type : Filter type A-P

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where

concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any

hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Material : butyl-rubber

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Material : Nitrile rubber

Break through time : 10 - 480 min

Remarks : Take note of the information given by the producer

concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of

contact).

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : beige

Odour : amine-like

Odour Threshold : No data is available on the product itself.

pH : ca. 11 (68 °F / 20 °C)

Concentration: 500 g/l

Melting point/freezing point : No data available

Boiling point : $> 392 \, ^{\circ}\text{F} / > 200 \, ^{\circ}\text{C}$

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

Method: Pensky-Martens closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1.42 g/cm3 (73 °F / 23 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 392 °F / > 200 °C

Self-Accelerating : No data is available on the product itself. decomposition temperature









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

(SADT)

Viscosity

Viscosity, dynamic : 50,000 - 100,000 mPa.s (68 °F / 20 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Molecular weight : No data available

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

Burning produces noxious and toxic fumes.

No decomposition if stored and applied as directed.

Hazardous decomposition

products

carbon monoxide carbon dioxide

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 58.33 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method









ARALDITE® 2015-1 HARDENER

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/11/2019

 1.2
 02/21/2022
 400000004944
 Date of first issue: 08/30/2017

Print Date 05/04/2022

Components:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated:

Acute oral toxicity : LD50 (Rat): > 15.4 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 3 g/kg

bis(isopropyl)naphthalene:

Acute oral toxicity : LD50 (Rat, male and female): 4,130 - 4,320 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is low toxic after single

ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 4,500 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Triethylenetetramine, propoxylated:

Acute oral toxicity : LD50 Oral (Rat): 4,500 mg/kg

Acute dermal toxicity : LD50 (Rat): >= 2,150 mg/kg

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Acute oral toxicity : LD50 (Rat): 910 mg/kg

Method: OECD Test Guideline 401

2,4,6-tris(dimethylaminomethyl)phenol:

Acute oral toxicity : LD50 (Rat, male and female): 2,169 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is low toxic after single

ingestion.

Acute dermal toxicity : LD50 (Rat, male): > 1 ml/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Components:

barium sulfate:

Species : human skin
Assessment : No skin irritation
Result : No skin irritation









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1piperazinyl)ethyl]amino]butyl-terminated:

Species Rabbit

Assessment Moderate skin irritant Result Irritating to skin.

bis(isopropyl)naphthalene:

Species Rabbit Exposure time 4 h

Assessment No skin irritation

Method **OECD Test Guideline 404** Normally reversible injuries Result

Triethylenetetramine, propoxylated:

Species Rabbit Exposure time 72 h

Method **OECD Test Guideline 404**

Result Irritating to skin.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Species Rabbit

Assessment Causes severe burns.

Result Corrosive after 3 minutes or less of exposure

2,4,6-tris(dimethylaminomethyl)phenol:

Species Rabbit

Method OECD Test Guideline 404

Result Corrosive after 1 to 4 hours of exposure

Species synthetic macromolecular bio-barrier

Method **OECD Test Guideline 435**

Result Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Components:

barium sulfate:

Species Rabbit

Result No eye irritation Assessment No eye irritation

OECD Test Guideline 405 Method

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-

piperazinyl)ethyl]amino]butyl-terminated:

Species Rabbit Result slight irritation Assessment Mild eye irritant

bis(isopropyl)naphthalene:

Species Rabbit

Result No eye irritation









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Assessment : No eye irritation

Method : OECD Test Guideline 405

Triethylenetetramine, propoxylated:

Species : Rabbit
Result : Eye irritation
Assessment : Irritating to eyes.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Species : Rabbit Result : Corrosive

Method : OECD Test Guideline 405

2,4,6-tris(dimethylaminomethyl)phenol:

Species : Rabbit
Result : Corrosive
Assessment : Corrosive
Method : Other guidelines

Respiratory or skin sensitisation

Components:

barium sulfate:

Exposure routes : Skin Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated:

Exposure routes : Skin

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

bis(isopropyl)naphthalene:

Test Type : Maximisation Test

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Assessment : May be harmful if swallowed or if inhaled.

Does not cause skin sensitisation.

Triethylenetetramine, propoxylated:

Exposure routes : Skin

Method : OECD Test Guideline 429

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans







ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : The product is a skin sensitiser, sub-category 1A.

2,4,6-tris(dimethylaminomethyl)phenol:

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

barium sulfate:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

bis(isopropyl)naphthalene:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Concentration: 9.5 - 60 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Concentration: 92 mg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Concentration: 40 - 60 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: Intraperitoneal injection

Dose: 1.92 g/kg









Enriching lives through innovation

ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 400000004944 Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Triethylenetetramine, propoxylated:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium Method: OECD Test Guideline 471

Result: positive

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Method: OECD Test Guideline 473

Result: negative

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Genotoxicity in vitro

Test Type: Ames test

Test system: Salmonella typhimurium

Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: Directive 67/548/EEC, Annex, B.13/14

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Concentration: 2 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

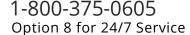
Species: Chinese hamster (male and female) Genotoxicity in vivo

Cell type: Bone marrow Application Route: Oral Dose: 825 - 1000 mg/kg

Method: OECD Test Guideline 474

Result: negative

Test Type: In vivo micronucleus test Species: Mouse (male and female)





RUDOLPH

BROS. E CO



ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 02/21/2022 400000004944 Date of first issue: 08/30/2017 1.2

Print Date 05/04/2022

Application Route: Oral Dose: 850 - 1000 mg/kg

Method: OECD Test Guideline 474

Result: negative

2,4,6-tris(dimethylaminomethyl)phenol:

Genotoxicity in vitro Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 2500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Carcinogenicity

Components:

barium sulfate:

Species Rat. male and female

Application Route Oral Exposure time 104 weeks Dose 60 - 75 mg/kg Method OPPTS 870.4200

Result negative

Mouse, male and female Species

Application Route Oral

Dose 160 - 200 mg/kg Method OPPTS 870.4200

Result negative

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

bis(isopropyl)naphthalene:

Effects on foetal Species: Rat, female development Application Route: Oral Dose: 100, 250, 625 mg/kg

Duration of Single Treatment: 20 d









ARALDITE® 2015-1 HARDENER

Version Revision Date: Date of last issue: 03/11/2019 SDS Number: 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Frequency of Treatment: 7 days/week

General Toxicity Maternal: LOAEL: 250 mg/kg body weight

Teratogenicity: NOAEL: 625 mg/kg body weight Embryo-foetal toxicity: NOAEL: 625 mg/kg body weight

Method: Directive 67/548/EEC, Annex V, B.31.

Result: No teratogenic effects

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

Triethylenetetramine, propoxylated:

Effects on fertility Test Type: Fertility

Species: Rat, male and female

Strain: wistar

Application Route: Ingestion

Dose: 100, 300 and 750 milligram per kilogram

General Toxicity - Parent: NOEL: Measured 750 mg/kg body

General Toxicity F1: NOEL: Measured 750 mg/kg body weight

Method: OECD Test Guideline 422

Effects on foetal

development

Species: Rat, male and female

Strain: wistar

Application Route: Ingestion

Dose: 100, 300 and 750 milligram per kilogram

General Toxicity Maternal: NOEL: Measured 300 mg/kg body

weight

Developmental Toxicity: NOAEL: Measured 750 mg/kg body

weight

Method: OECD Test Guideline 422

Reproductive toxicity -

Assessment

: No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Effects on fertility Species: Rat, male and female

Application Route: Oral

Dose: 10, 60, 120 mg/kg bw/day Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Effects on foetal Species: Rabbit, female development Application Route: Oral

General Toxicity Maternal: NOAEL: 50,000 ppm

Result: No teratogenic effects

2,4,6-tris(dimethylaminomethyl)phenol:

Effects on fertility Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Remarks: No significant adverse effects were reported









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

STOT - single exposure

No data available

STOT - repeated exposure

Components:

Triethylenetetramine, propoxylated:

Exposure routes : Ingestion Target Organs : Kidney

Assessment : No significant health effects observed at a concentration of

300mg/kg bw/day.

Repeated dose toxicity

Components:

barium sulfate:

Species : Rat

LOEC : >= 104 mg/kg, 40 mg/m3

Application Route : Ingestion
Test atmosphere : dust/mist
Exposure time : 5 h
Number of exposures : 5 d

Method : Subchronic toxicity

bis(isopropyl)naphthalene:

Species : Rat, male and female

NOAEL : 170 mg/kg
Application Route : oral (feed)
Exposure time : 4,320 h
Number of exposures : 7 d

Dose : 170, 340, and 670 mg/kg Method : Subchronic toxicity

Remarks : No significant adverse effects were reported

Repeated dose toxicity - : May be harmful if swallowed or if inhaled.

Assessment No adverse effect has been observed in chronic toxicity tests.

Triethylenetetramine, propoxylated:

Species : Rat, male and female

NOAEL : 300 mg/kg
Application Route : Ingestion
Exposure time : 43 - 44 Days

Method : OECD Test Guideline 422

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Species : Rat, male and female NOAEL : 10 mg/kg bw/day

Application Route : Ingestion
Exposure time : 13 Weeks
Number of exposures : Daily

Dose : 10, 60, 180mg/kg bw

Target Organs : Liver









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Species Rat, male and female LOAEL 60 mg/kg bw/day

Application Route Ingestion 13 Weeks Exposure time Number of exposures Daily

10, 60, 180mg/kg bw Dose

Target Organs Liver

2,4,6-tris(dimethylaminomethyl)phenol:

Species Rat, male and female

NOEL 15 mg/kg Application Route Ingestion Exposure time 1,032 h 7 d Number of exposures

Method Subacute toxicity

Aspiration toxicity

Components:

bis(isopropyl)naphthalene:

May be fatal if swallowed and enters airways.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

barium sulfate:

Toxicity to fish LC50: 174 mg/l

> Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 14.5 mg/l

Exposure time: 48 h Test Type: static test Test substance: Fresh water

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EC50: > 100 mg/l Exposure time: 72 h









Enriching lives through innovation

ARALDITE® 2015-1 HARDENER

Version Revision Date: 02/21/2022 1.2

SDS Number: 400000004944 Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

NOEC: > 1.15 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 5.8 mg/l

Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1piperazinyl)ethyl]amino]butyl-terminated:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (No information available.): > 1,000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

bis(isopropyl)naphthalene:

Toxicity to fish LC50: > 0.5 mg/l

> Exposure time: 96 h Test Type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1. Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.16 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility

EL50 (Daphnia magna (Water flea)): 1.7 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOECr (Desmodesmus subspicatus (green algae)): ca. 0.15

mg/l

Exposure time: 72 h Test Type: static test Method: DIN 38412

Remarks: Aquatic toxicity is unlikely due to low solubility.

M-Factor (Acute aquatic

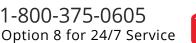
toxicity)

1

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.013 mg/l











ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 400000004944

Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic

toxicity)

1

Ecotoxicology Assessment

Acute aquatic toxicity : No toxicity at the limit of solubility

Triethylenetetramine, propoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): Measured > 4.1

mg/l

Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): Measured 48 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (algae)): Measured 4.1

mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 201

ErC10 (Pseudokirchneriella subcapitata (algae)): Measured

0.11 mg/l

Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): 38 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 174 mg/l

Exposure time: 48 h Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 31.5 mg/l

Exposure time: 24 h Method: DIN 38412







HUNTSMAN Enriching lives through innovation

ARALDITE® 2015-1 HARDENER

Version 1.2

Revision Date: 02/21/2022

SDS Number: 400000004944

Date of last issue: 03/11/2019 Date of first issue: 08/30/2017

Print Date 05/04/2022

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (algae)): 43.5 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 37.1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 16 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOEC (Brachydanio rerio (zebrafish)): 10.9 mg/l

Exposure time: 30 d

Method: OECD Test Guideline 210

Lowest Observed Effect Concentration (Brachydanio rerio

(zebrafish)): 10.9 mg/l Exposure time: 30 d

Method: OECD Test Guideline 210

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 1.02 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Lowest Observed Effect Concentration (Daphnia magna

(Water flea)): 1.02 mg/l Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : IC50 (Pseudomonas putida): 89 mg/l

Exposure time: 17 h

Toxicity to soil dwelling

organisms

NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

EC50 (Eisenia fetida (earthworms)): >= 1,000 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Palaeomonetes vulgaris (Grass shrimp)): 718 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Test substance: Marine water

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 84 mg/l

Exposure time: 72 h









DAI DITTE 2045 4 HADDENED

ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (algae)): 43.5 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 37.1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 16 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOEC (Brachydanio rerio (zebrafish)): 10.9 mg/l

Exposure time: 30 d

Method: OECD Test Guideline 210

Lowest Observed Effect Concentration (Brachydanio rerio

(zebrafish)): 10.9 mg/l Exposure time: 30 d

Method: OECD Test Guideline 210

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 1.02 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Lowest Observed Effect Concentration (Daphnia magna

(Water flea)): 1.02 mg/l Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : IC50 (Pseudomonas putida): 89 mg/l

Exposure time: 17 h

Toxicity to soil dwelling

organisms

NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

EC50 (Eisenia fetida (earthworms)): >= 1,000 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Palaeomonetes vulgaris (Grass shrimp)): 718 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Test substance: Marine water

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 84 mg/l

Exposure time: 72 h









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Biodegradability aerobic

Inoculum: activated sludge, non-adapted

Concentration: 2 mg/l Result: Not biodegradable Biodegradation: 4 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

bis(isopropyl)naphthalene:

Bioaccumulation Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 770 - 6,400

Exposure time: 60 d

Test substance: Fresh water Method: flow-through test

Partition coefficient: n-

octanol/water

log Pow: 6.081 Method: QSAR

Triethylenetetramine, propoxylated:

Partition coefficient: n-

octanol/water

log Pow: -2.42

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Partition coefficient: nlog Pow: -0.3 (77 °F / 25 °C)

octanol/water Method: OECD Test Guideline 117

2,4,6-tris(dimethylaminomethyl)phenol:

: Pow: >= 0.219 (70.7 °F / 21.5 °C) Partition coefficient: noctanol/water log Pow: -0.66 (70.7 °F / 21.5 °C)

Method: OPPTS 830.7550

Mobility in soil

Components:

bis(isopropyl)naphthalene:

Distribution among Koc: 36108 Method: QSAR environmental compartments

Other adverse effects

Product:

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

Components:

Triethylenetetramine, propoxylated:

Results of PBT and vPvB

This substance is not considered to be persistent,

assessment

bioaccumulating and toxic (PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 2735

Proper shipping name : Polyamines, liquid, corrosive, n.o.s.

(TRIMETHYLHEXAMETHYLENEDIAMINE, 2,4,6-

TRIS(DIMETHYL AMINOMETHYL)PHENOL)

Class : 8 Packing group : III

Labels : Corrosive

Packing instruction (cargo

aircraft)

856

Packing instruction : 8

(passenger aircraft)

852

IMDG-Code

UN number : UN 2735

Proper shipping name : POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(TRIMETHYLHEXAMETHYLENEDIAMINE, 2,4,6-TRIS(DIMETHYL AMINOMETHYL)PHENOL)

Class : 8
Packing group : III
Labels : 8

EmS Code : F-A, S-B

Marine pollutant : yes(DIISOPROPYLNAPHTHALENE ISOMERS,

TRIETHYLENE TETRAMINE PROPOXYLATED)







ARALDITE® 2015-1 HARDENER

Version Revision Date: Date of last issue: 03/11/2019 SDS Number: 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number UN 2735

: Polyamines, liquid, corrosive, n.o.s. Proper shipping name

> (TRIMETHYLHEXAMETHYLENEDIAMINE, 2,4,6-TRIS(DIMETHYL AMINOMETHYL)PHENOL)

Class 8 Packing group Ш

Labels : CORROSIVE

ERG Code 153

Marine pollutant yes(DIISOPROPYLNAPHTHALENE ISOMERS,

TRIETHYLENE TETRAMINE PROPOXYLATED)

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 311/312 Hazards Respiratory or skin sensitisation

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AIIC : On the inventory, or in compliance with the inventory

NZIoC On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 400000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

Inventories

AllC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

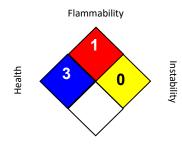
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

Revision Date : 02/21/2022

ACGIH USA. ACGIH Threshold Limit Values (TLV) **NIOSH REL** USA. NIOSH Recommended Exposure Limits

OSHA P0 USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 OSHA Z-1

Limits for Air Contaminants

ACGIH / TWA 8-hour, time-weighted average

Time-weighted average concentration for up to a 10-hour NIOSH REL / TWA

workday during a 40-hour workweek

8-hour time weighted average OSHA P0 / TWA









ARALDITE® 2015-1 HARDENER

Version Revision Date: SDS Number: Date of last issue: 03/11/2019 1.2 02/21/2022 40000004944 Date of first issue: 08/30/2017

Print Date 05/04/2022

OSHA Z-1 / TWA : 8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.





