



RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

SECTION 1. IDENTIFICATION

Product name : RENCAST® 6442 US

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Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

P.O. Box 4980 The Woodlands, TX 77387

United States of America

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

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

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 3

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Chronic aquatic toxicity : Category 3

GHS Label element

Hazard pictograms





Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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

P272 Contaminated work clothing must not be allowed out of





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory

protection. Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or destar/ physician.

doctor/ physician.

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

attention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

Storage:

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

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	3 - 7
4,4'-methylenedicyclohexyl diisocyanate	5124-30-1	1-3

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: No data is available on the product itself.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Standard procedure for chemical fires.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Not applicable for product as supplied.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). 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.

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	TWA	0.005 ppm	ACGIH
		TWA	0.005 ppm 0.045 mg/m3	NIOSH REL
		ST	0.02 ppm 0.18 mg/m3	NIOSH REL
		TWA	0.005 ppm	OSHA P0
		STEL	0.02 ppm	OSHA P0
4,4'-methylenedicyclohexyl diisocyanate	5124-30-1	TWA	0.005 ppm	ACGIH
		С	0.01 ppm 0.11 mg/m3	NIOSH REL
		С	0.01 ppm 0.11 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber, clear

Odor : slight

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

pH : No data is available on the product itself.

Flash point : > 149 °C

Method: closed cup

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

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

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.





RENCAST® 6442 US

Version SDS Number: Date of last issue: -Revision Date:

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

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

Relative vapor density : 1

: 1.02 - 1.06 Relative density

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : Water reactive

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.

Autoignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity Stable under recommended storage conditions. Chemical stability No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : No data is available on the product itself.

No hazards to be specially mentioned.

Acute toxicity

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

Method: Calculation method

Acute inhalation toxicity -

Product

Acute toxicity estimate: 0.61 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

Acute dermal toxicity : LD50 (Rat, male and female): > 7,000 mg/kg





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Method: OECD Test Guideline 402

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitization

Product:

Remarks: No data available

Assessment: No data available

Germ cell mutagenicity

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

Genotoxicity in vitro : Concentration: 50 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 28 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Concentration: 96 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

: No data available Genotoxicity in vivo

Carcinogenicity

No data available

Carcinogenicity -: No data available

Assessment

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

human carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient 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

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

Effects on fertility : Species: Rat, male and female

Application Route: Inhalation Target Organs: Respiratory Tract Method: OECD Test Guideline 421

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

Effects on fetal development : Species: Rat, female

Application Route: Inhalation

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 1 mg/m3

Method: OECD Test Guideline 414 Result: No teratogenic effects.

Reproductive toxicity -

Assessment

: No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

Species: Rat, male and female

NOEC: 3 mg/m3

Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 6 h

Method: OECD Test Guideline 413





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Toxicity to fish : LC50: 1.8 mg/l

Exposure time: 48 h Method: DIN 38412

4,4'-methylenedicyclohexyl diisocyanate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 8.1 mg/l

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

Method: Directive 67/548/EEC, Annex V, C.1.

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:





RENCAST® 6442 US

Version SDS Number: Date of last issue: -Revision Date:

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Toxicity to daphnia and other

aquatic invertebrates

aquatic invertebrates

: EC50: 83.7 mg/l Exposure time: 24 h Method: DIN 38412

4,4'-methylenedicyclohexyl diisocyanate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 8.3 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate: Toxicity to algae : EC50: 118.7 mg/l

Exposure time: 72 h

4,4'-methylenedicyclohexyl diisocyanate:

Toxicity to algae : EgC50 (Desmodesmus subspicatus (Scenedesmus

> subspicatus)): > 5 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 3 mg/l

aquatic invertebrates

(Chronic toxicity)

Exposure time: 21 d

M-Factor (Chronic aquatic : No data available

toxicity)

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

: EC50: 263 mg/l Toxicity to bacteria

Exposure time: 3 h

Method: Directive 67/548/EEC, Annex V, B.15.

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Further information: No data available

Persistence and degradability

Ingredients:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:
Biodegradability: Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: Tested according to Directive 92/69/EEC.

4,4'-methylenedicyclohexyl diisocyanate:

Biodegradability : Inoculum: activated sludge

Concentration: 30 mg/l

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.D.

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-

octanol/water

: No data available

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

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).

Additional ecological

information - Product Global warming potential

(GWP)

: There is no data available for this product.

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Offer surplus and non-recyclable solutions to a licensed

disposal company.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.





RENCAST® 6442 US

Version SDS Number: Date of last issue: -Revision Date:

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA

Not regulated as a dangerous good

IMDG

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

DOT Classification

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New : Not relevant

Use Rule List of Chemicals

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

4,4'-methylenedicyclohexyl 5124-30-1 2.157 %

diisocyanate

3-isocyanatomethyl-3,5,5-4098-71-9 6.334 %

trimethylcyclohexyl

isocyanate

Clean Air Act

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Pennsylvania Right To Know

119185-07-8 90 - 100 % Oxirane, methyl-, polymer with .alpha.hydro-.omega.-hydroxypoly(oxy-1,4-





RENCAST® 6442 US

Version SDS Number: Date of last issue: -Revision Date:

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

> butanediyl), 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimet 3-isocyanatomethyl-3,5,5-

trimethylcyclohexyl isocyanate

4098-71-9 5 - 10 %

California Prop 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

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

CH INV : The mixture contains substances listed on the Swiss Inventory

benzoyl chloride

TSCA : On TSCA Inventory

: This product contains the following components listed on the DSL

Canadian NDSL. All other components are on the Canadian

: Oxirane, methyl-, polymer with .alpha.-hydro-.omega.-

hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-

(isocyanatomethyl)-1,3,3-trimet

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

NZIoC Not in compliance with the inventory

> Oxirane, methyl-, polymer with .alpha.-hydro-.omega.hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-

(isocyanatomethyl)-1,3,3-trimet

ENCS On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory ISHL

KECI Not in compliance with the inventory

Oxirane, methyl-, polymer with .alpha.-hydro-.omega.-

hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-

(isocyanatomethyl)-1,3,3-trimet

: Not in compliance with the inventory **PICCS**

Oxirane, methyl-, polymer with .alpha.-hydro-.omega.-

hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-

(isocyanatomethyl)-1,3,3-trimet

IECSC : Low volume exemption

Oxirane, methyl-, polymer with .alpha.-hydro-.omega.-

hydroxypoly(oxy-1,4-butanediyl), 5-isocyanato-1-

(isocyanatomethyl)-1,3,3-trimet

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)





RENCAST® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/26/2015 400001012691 Date of first issue: 08/26/2015

SECTION 16. OTHER INFORMATION

Further information

Flammability Instability

Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date : 08/26/2015

While 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.

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. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.





REN® 6442 US

SDS Number: Date of last issue: -Version Revision Date:

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

SECTION 1. IDENTIFICATION

Product name : REN® 6442 US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

Telephone

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

: MSDS@huntsman.com

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

Recommended use of the chemical and restrictions on use

Recommended use : Component of a Polyurethane System.

Component of a Polyurethane System.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity Category 2

Reproductive toxicity Category 1B

Specific target organ toxicity

- single exposure (Oral)

: Category 2 (Liver)

Specific target organ toxicity repeated exposure (Oral)

: Category 1 (Liver)

Specific target organ toxicity

repeated exposure (Oral)

: Category 2 (Kidney)

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

GHS label elements





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Hazard pictograms







Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H371 May cause damage to organs (Liver) if swallowed. H372 Causes damage to organs (Liver) through prolonged or

repeated exposure if swallowed.

H373 May cause damage to organs (Kidney) through prolonged

or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should 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 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
benzyl butyl phthalate	85-68-7	70 - 90
4,4'-methylenebis(2-ethylaniline)	19900-65-3	20 - 25
dibutyl phthalate	84-74-2	0.1 - 0.25

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.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : Consult a physician after significant exposure.

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

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.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

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

No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

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.

Ensure adequate ventilation.

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 : 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

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Advice on safe handling Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma. allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

upright to prevent leakage. Observe label precautions.

Keep in properly labelled containers.

Further information on

storage stability

Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dibutyl phthalate	84-74-2	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA Z-1

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : 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

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : pink

Odour : No data is available on the product itself.

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

pH : No data is available on the product itself.

Freezing point : No data is available on the product itself.

Melting point No data is available on the product itself.

Boiling point No data is available on the product itself.





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Flash point : > 93 °C

Method: estimated, 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 : 1.1

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : slightly soluble

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.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity : No data is available on the product itself.

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

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

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 : No hazards to be specially mentioned.

reactions

Conditions to avoid : None known.





REN® 6442 US

Version

1.0

Revision Date: 12/13/2017

SDS Number: 400001012690 Date of last issue: -

Date of first issue: 12/13/2017

Incompatible materials

: None known.

Hazardous decomposition

products

carbon dioxide

carbon monoxide

Nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : No data is available on the product itself.

Acute toxicity

Acute oral toxicity - Product

: Acute toxicity estimate : 1,158 mg/kg

Method: Calculation method

Acute inhalation toxicity -

Product

: Acute toxicity estimate: 5.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity -

Product

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

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

4,4'-methylenebis(2-ethylaniline):

Species: Rabbit

Assessment: No skin irritation Method: OPPTS 870.2500 Result: No skin irritation

dibutyl phthalate: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

4,4'-methylenebis(2-ethylaniline):

Species: Rabbit

Result: No eye irritation





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Assessment: No eye irritation Method: Acute Eye Irritation

dibutyl phthalate: Species: Rabbit

Result: Normally reversible injuries Assessment: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

4,4'-methylenebis(2-ethylaniline):

Exposure routes: Skin Species: Humans

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

dibutyl phthalate: Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

4,4'-methylenebis(2-ethylaniline):

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: positive

dibutyl phthalate:

Genotoxicity in vitro : Concentration: 100 - 2000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Components:

4,4'-methylenebis(2-ethylaniline):

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Cell type: Somatic

Application Route: Intraperitoneal injection

Exposure time: 72 h Dose: 56 - 140 mg/kg

Method: OECD Test Guideline 474

Result: Not classified due to inconclusive data.

Test Type: In vivo micronucleus test

Species: Mouse





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Cell type: Somatic

Application Route: Intraperitoneal injection

Dose: 9.3 - 37 mg/kg

Method: OECD Test Guideline 474

Result: positive

dibutyl phthalate:

Genotoxicity in vivo : Exposure time: 13 Weeks

Dose: 163 - 4278 mg/kg

Result: negative

Components:

4,4'-methylenebis(2-ethylaniline):

Germ cell mutagenicity-

Assessment

 Positive result(s) from in vivo somatic cell mutagenicity tests supported by positive results from in vitro mutagenicity assays or chemical structure activity relationship to known germ cell

mutagens

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

4,4'-methylenebis(2-ethylaniline): Species: Rat, (male and female)

Application Route: Oral Exposure time: 103 weeks Dose: 9 - 10 mg/kg

Frequency of Treatment: 24 hour Method: OECD Test Guideline 451

Result: positive

Components:

4,4'-methylenebis(2-ethylaniline):

Carcinogenicity - : Limite

Assessment IARC : Limited evidence of carcinogenicity in animal studies

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

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.





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Reproductive toxicity

Components:

dibutyl phthalate:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: No observed adverse effect level:

385 mg/kg body weight

Target Organs: Reproductive organs

Components:

dibutyl phthalate:

Effects on foetal : Species: Rat, male and female

development Application Route: Oral

General Toxicity Maternal: Lowest observed adverse effect

level: 10,000 ppm

Result: Teratogenic effects

Species: Mouse Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

100 mg/kg body weight Result: Teratogenic effects

Components:

benzyl butyl phthalate:

Reproductive toxicity -

: Presumed human reproductive toxicant

Assessment dibutyl phthalate:

Reproductive toxicity -

Reproductive toxicity -

Assessment

: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT - single exposure

Components:

4,4'-methylenebis(2-ethylaniline): Exposure routes: Ingestion

Target Organs: Liver

Assessment: May cause damage to organs.

STOT - repeated exposure

Components:

4,4'-methylenebis(2-ethylaniline): Exposure routes: Ingestion

Target Organs: Liver

Assessment: Causes damage to organs through prolonged or repeated exposure.

Exposure routes: Ingestion Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Repeated dose toxicity

Components:

4,4'-methylenebis(2-ethylaniline): Species: Rat, male and female LOAEL: 7.5 - 8 mg/kg/d Application Route: Ingestion Exposure time: 2,160 h Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: 90 mg/kg/d

Application Route: Skin contact

Exposure time: 2,160 h Number of exposures: 5 d Method: Subchronic toxicity

dibutyl phthalate:

Species: Rat, male and female

NOEC: 509 mg/m3

Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 4 Weeks Number of exposures: 6 h

Method: OECD Test Guideline 412

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available





REN® 6442 US

Version SDS Number: Date of last issue: -Revision Date:

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Further information

Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

benzyl butyl phthalate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1 - 10 mg/l

> Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 1 - 10 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.82 mg/l

Exposure time: 96 h

Test Type: flow-through test

LC50: 1.5 mg/l Exposure time: 96 h

4,4'-methylenebis(2-ethylaniline):

Toxicity to fish LC50 (Oryzias latipes (Orange-red killifish)): 20.6 mg/l

> Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203

dibutyl phthalate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.48 mg/l

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

Method: OECD Test Guideline 203

Components:

benzyl butyl phthalate:

aquatic invertebrates

Toxicity to daphnia and other : EC50: 1 - 10 mg/l aquatic invertebrates Exposure time: 48 h

4,4'-methylenebis(2-ethylaniline):

Toxicity to daphnia and other

: EC50 (Daphnia magna (Water flea)): 0.35 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

dibutyl phthalate:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.99 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: Gammarid Acute Toxicity Test

LC50 (Gammarus salinus (seawater shrimp)): 0.5 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Marine water Method: Mysid Acute Toxicity Test

Components:

benzyl butyl phthalate:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.02 - 0.25

mg/

Exposure time: 96 h

Test substance: Fresh water

IC50: 0.92 - 4.6 mg/l Exposure time: 72 h

dibutyl phthalate:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.75 mg/l

Exposure time: 240 h Test Type: static test

Test substance: Fresh water

Components:

benzyl butyl phthalate:

M-Factor (Acute aquatic : 10

toxicity)

4,4'-methylenebis(2-ethylaniline): M-Factor (Acute aquatic : 1

toxicity)

dibutyl phthalate:

M-Factor (Acute aquatic : 1

toxicity)

Components:

benzyl butyl phthalate:

Toxicity to fish (Chronic : NOEC: 0.14 - 0.74 mg/l

toxicity)

dibutyl phthalate:

Toxicity to fish (Chronic : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.1 mg/l

toxicity) Exposure time: 99 d

Components:

benzyl butyl phthalate:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC50 (Daphnia magna (Water flea)): 0.97 mg/l

Exposure time: 48 hrs





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

4,4'-methylenebis(2-ethylaniline):

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.00525 mg/l

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

dibutyl phthalate:

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: NOEC (Daphnia pulex (Water flea)): 0.1 mg/l

Exposure time: 10 d

Components:

4,4'-methylenebis(2-ethylaniline): M-Factor (Chronic aquatic :

toxicity)

10

Components:

benzyl butyl phthalate:

Toxicity to microorganisms : IC50: > 2.8 mg/l

dibutyl phthalate:

Toxicity to microorganisms : EC50 (Bacteria): 2.2 mg/l

Exposure time: 24 h

Components:

dibutyl phthalate:

Toxicity to soil dwelling organisms

: LC50: 10 mg/kg Exposure time: 504 h

NOEC: 0.5 mg/kg Exposure time: 504 h

Components:

dibutyl phthalate:

Plant toxicity : NOEC: 200 mg/l

Exposure time: 3 Weeks Test substance: Natural

EC50: 387 mg/kg Exposure time: 168 h

Method: Terrestrial Plants Test: Seedling Emergence and

Seedling Growth Test

Components:

dibutyl phthalate:

Sediment toxicity : (Gammarus pulex (Amphipod)): 826 mg/kgsedimentdw

Study: Acute

Test Type: Other guidelines Water: Fresh water Exposure duration: 10 d

100 mg/kgsedimentdw





REN® 6442 US

Version Revision Date: SDS Number:

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Study: Chronic Water: Marine water

Exposure duration: 8 Weeks

Date of last issue: -

Components:

dibutyl phthalate:

Toxicity to terrestrial

organisms

NOEC: 0.472 mg/kg
 Exposure time: 360 h

Ecotoxicology Assessment

Acute aquatic toxicity

: No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

benzyl butyl phthalate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 60 % Exposure time: 28 d

dibutyl phthalate:

Biodegradability : Inoculum: activated sludge

Concentration: 21.7 mg/l Result: Readily biodegradable.

Biodegradation: 81 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.C.

Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 97 %

Exposure time: 21 d

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available





REN® 6442 US

Version

1.0

Revision Date: 12/13/2017

SDS Number: 400001012690 Date of last issue: -

Date of first issue: 12/13/2017

Physico-chemical

removability

: No data available

: No data available Stability in water

Components:

dibutyl phthalate:

Photodegradation : Test Type: Air

Rate constant: < .00001

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

benzyl butyl phthalate:

Bioaccumulation : Bioconcentration factor (BCF): 12

dibutyl phthalate:

Bioaccumulation : Bioconcentration factor (BCF): 0.81

Test substance: Marine water

Bioconcentration factor (BCF): < 1

Components:

benzyl butyl phthalate:

Partition coefficient: n-

octanol/water

: log Pow: 4.91

dibutyl phthalate:

Partition coefficient: n-

: log Pow: 4.46 (30 °C) pH: 5 - 8

octanol/water

Method: Partition coefficient

Mobility in soil

Mobility : No data available

Components:

benzyl butyl phthalate:

Distribution among : Koc: 4.7

environmental compartments

dibutyl phthalate:

Distribution among

: Koc: 1.4

environmental compartments

Stability in soil : No data available

Other adverse effects

Environmental fate and

: No data available

pathways





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

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).

Additional ecological

information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(BENZYL BUTYL PHTHALATE, DIETHYL METHYLENE

DIANILINE)

Class : 9 Packing group : III





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

: 964

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BENZYL BUTYL PHTHALATE, DIETHYL METHYLENE

DIANILINE)

 Class
 : 9

 Packing group
 : III

 Labels
 : 9

 EmS Code
 : F-A, S-F

 Marine pollutant
 : yes

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

Not applicable for product as supplied.

National Regulations

DOT Classification

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BENZYL BUTYL PHTHALATE, DIETHYL METHYLENE

DIANILINE)

Class : 9 Packing group : III

Labels : CLASS 9 ERG Code : 171

Marine pollutant : yes(BENZYL BUTYL PHTHALATE, DIETHYL METHYLENE

DIANILINE)

Remarks : Above applies only to containers over 119 gallons or 450

liters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
benzyl butyl phthalate	85-68-7	100	130	
dibutyl phthalate	84-74-2	10	6527	

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Respiratory or skin sensitisation

Germ cell mutagenicity





REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

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

WARNING: This product can expose you to chemicals including benzyl butyl phthalate, dibutyl phthalate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

CH INV : The formulation contains substances listed on the Swiss

Inventory, On the inventory, or in compliance with the

inventory

DSL : All components of this product are on the Canadian DSL AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

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

KECI : Not in compliance with the inventory

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), 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.





REN® 6442 US

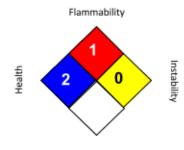
Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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 : 12/13/2017

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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

Limits for Air Contaminants

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

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REN® 6442 US

Version Revision Date: SDS Number: Date of last issue: -

1.0 12/13/2017 400001012690 Date of first issue: 12/13/2017

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