

Triethanolamine 85% LF

Version 1.0 Date: 04/15/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

: Triethanolamine 85% LF **Product name**

Product Use Descrip-: Intermediate, Cleaning solutions.

tion

Manufacturer or supplier's details

: Deep South Chemical, Inc. Company

Address 229 Millstone Road

Broussard, LA 70518 United States of America

Emergency telephone number:

Transport North America: CHEMTREC 800.424.9300

Additional Infor-: Responsible Party: Product Safety Group mation:

E-Mail: info@deep-south-chemical.com

SDS Requests: 1-337-837-9931

Website: <u>www.deep-south-chemical.com</u>

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Serious eye damage : Category 1

Carcinogenicity : Category 2

Specific target organ tox-

icity - repeated exposure

(Oral)

: Category 2 (Liver, Blood, Kidney)

GHS Label element

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

> H318 Causes serious eye damage. H351 Suspected of causing cancer.



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H373 May cause damage to organs through prolonged

or repeated exposure if swallowed.

Precautionary statements : **Prevention**:

P201 Obtain special instructions before use.

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

spray.

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

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

water.

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 or doctor/

physician.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

P332 + P313 If skin irritation occurs: Get medical

advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved

waste disposal plant.

Potential Health Effects

Aggravated Medical Con-

dition

: None known.

Symptoms of Overexpo-

sure

: Severe irritation

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

111-42-2 Diethanolamine

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.

OSHANo component of this product present at levels greater

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.



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NTP No component of this product present at levels greater

than or equal to 0.1% is identified as a known or antici-

pated carcinogen by NTP.

Emergency Overview

Appearance	viscous, liquid
Colour	colourless, light yellow
Odour	ammoniacal
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
102-71-6	Triethanolamine	70 - 100
111-42-2	Diethanolamine	1 - 20

SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.

Show this safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek

medical advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

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

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

ble 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.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty

of water.



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Keep respiratory tract clear. Do NOT induce vomiting.

Never give anything by mouth to an unconscious per-

son.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

: Severe irritation

Notes to physician : Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing

media

: Use an extinguishing media appropriate for surround-

ing fire.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

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

or water courses.

During a fire, irritating or toxic decomposition prod-

ucts may be generated.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Nitrogen oxides (NOx)

Specific extinguishing

methods

: Collect contaminated fire extinguishing water sepa-

rately. This must not be discharged into drains.

Further information : Fire residues ar

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regu-

lations.

Special protective equip-

ment for firefighters

: Wear self-contained breathing apparatus for fire-

fighting if necessary.

NFPA Flammable and Combustible Liquids Classification:

Combustible Liquid Class IIIB

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

: Use personal protective equipment.



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emergency procedures

Environmental precau-

tions

: 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, sili-

ca gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

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

Smoking, eating and drinking should be prohibited in

the application area.

To avoid spills during handling keep bottle on a metal

tray.

Dispose of rinse water in accordance with local and

national regulations.

Conditions for safe stor-

age

: Keep container tightly closed in a dry and well-

ventilated place.

Electrical installations / working materials must com-

ply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
102-71-6	Triethanolamine	TWA	5 mg/m3	ACGIH
111-42-2	Diethanolamine	TWA (In- halable fraction and vapor)	1 mg/m3	ACGIH
		TWA	3 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 15 mg/m3	OSHA P0



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Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : The suitability for a specific workplace should be dis-

cussed 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 pro-

cessing 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous, liquid

Colour : colourless, light yellow

Odour : ammoniacal

Odour Threshold : No data available

pH : 11 - 11.7 @ 2 % 15.8 - 20 °C (60.4 - 68 °F)

Freezing Point (Melting : -5 - 21 °C (23 - 70 °F)

point/freezing point) (1,013 hPa)

Boiling Point (Boiling : 119.1 - 336.1 °C (246.4 - 637.0 °F)

point/boiling range) (1013 hPa)

Flash point : 138 - 194.4 °C (280 - 381.9 °F)

(1,013 hPa)

Evaporation rate : < 0.1

n-Butyl Acetate

Flammability (solid, gas) : No data available



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Burning rate : No data available

Upper explosion limit : 7.2 %(V)

Lower explosion limit : 3.6 %(V)

Vapour pressure : 0.0002 - 9.7 mmHg @ 20 - 21 °C (68 - 70 °F)

Relative vapour density : 5.1

Relative density : 1.119 - 1.125 @ 20 °C (68 °F)

Reference substance: (water = 1)

Density : 1.125 g/cm3 @ 20 °C (68 °F)

Bulk density : No data available

Solubility(ies)

Water solubility : 1,000 g/l completely miscible

Solubility in other sol-

vents

: No data available

Partition coefficient: n-

octanol/water

: log Pow: -2.3

Auto-ignition temperature : 324 - 330 °C

Thermal decomposition : > 120 °C

Viscosity

Viscosity, dynamic : 934 mPa.s @ 20 °C (68 °F)

Viscosity, kinematic : 182 mm2/s @ 40 °C (104 °F)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of

normal use.

Chemical stability : Stable under normal conditions.



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Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : Freezing temperatures.

elevated temperatures

Possible emission of gaseous decomposition products

may lead to a dangerous pressure build-up.

Exposure to moisture. Exposure to light.

Incompatible materials : Strong acids

Strong oxidizing agents Halogenated compounds

Aluminium

Halogenated hydrocarbon

Zinc

galvanized metals

nitrites and other nitrosating agents

Copper Tin

Strong bases

Acids

Oxidizing agents

Hazardous decomposition

products

: Hydrogen, by reaction with metals carbon dioxide and carbon monoxide

Nitrogen oxides (NOx)

Ammonia

Thermal decomposition can lead to release of irritating

gases and vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

Method: Calculation method

Components:

102-71-6:

Acute oral toxicity : LD50 (rat, male and female): 6,400 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : Remarks: No data available



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Acute dermal toxicity : LD50 (rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

111-42-2:

Acute oral toxicity : LD50 (rat): 780 mg/kg

Assessment: The component/mixture is moderately

toxic after single ingestion.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute

dermal toxicity

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Components:

102-71-6:

Species: rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: no

111-42-2:

Species: rabbit

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Risk of serious damage to eyes.

Components:

102-71-6:

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

111-42-2:

Species: rabbit

Result: Risk of serious damage to eyes.



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Respiratory or skin sensitisation

Components:

102-71-6:

Test Type: Maximization test

Species: quinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

111-42-2:

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

102-71-6:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic acti-

vation

Method: OECD Test Guideline 471

Result: negative GLP: No data available

Germ cell mutagenicity-

Assessment

: Tests on bacterial or mammalian cell cultures did not

show mutagenic effects.

111-42-2:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay

Test species: Mouse lymphoma cells

Metabolic activation: with and without metabolic acti-

vation

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

> Test species: mouse Application Route: Dermal Exposure time: 13 wks

Result: negative

Germ cell mutagenicity-

Assessment

: Tests on bacterial or mammalian cell cultures did not

show mutagenic effects.

Carcinogenicity

Components:

102-71-6:



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Carcinogenicity - As-

sessment

: Carcinogenicity classification not possible from current

data.

111-42-2:

Species: rat

Application Route: Dermal Exposure time: 103 wks

Frequency of Treatment: 5 days/week

NOAEL: 64 mg/kg body weight

Method: OECD Test Guideline 451

Carcinogenicity - As-

sessment

: Carcinogenicity classification not possible from current

data.

Reproductive toxicity

Components:

102-71-6:

Effects on fertility : Species: rat, male and female

Application Route: oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity - Parent: NOAEL: > 1,000 mg/kg bw

Fertility: NOAEL: > 1,000 mg/kg

Early Embryonic Development: NOAEL: 300 mg/kg

Symptoms: reduced litter size Method: OECD Test Guideline 421

GLP: yes

Effects on foetal devel-

opment

: Species: rat

Application Route: oral

Dose: 100, 300, 1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: > 1,000 mg/kg bw Developmental Toxicity: NOAEL: 300 mg/kg bw

GLP: yes

Reproductive toxicity -

Assessment

: No evidence of adverse effects on sexual function and

fertility, and on development, based on animal exper-

iments.

111-42-2:

Effects on fertility : Test Type: Two-generation study

Species: rat

Application Route: Oral

Fertility: NOAEL: 300 mg/kg body weight

Symptoms: Reduced fertility

Remarks: Information given is based on data obtained

from similar substances.

Effects on foetal devel- : Species: rat



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opment Application Route: Inhalation

Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day Teratogenicity: NOAEC: 0.2 mg/L

Reproductive toxicity -

Assessment

: Fertility classification not possible from current data. Embryotoxicity classification not possible from current

data.

STOT - single exposure Product:No data available

Components:

102-71-6: No data available

111-42-2: No data available

STOT - repeated exposure

Product: No data available

Components:

102-71-6:No data available

111-42-2:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Oral	Liver, Blood, Kid- ney	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2., May cause damage to organs through prolonged or repeated exposure.	

Repeated dose toxicity

Components:

102-71-6:

Species: rat, male and female

NOAEL: 1,000 mg/kg Application Route: Oral Exposure time: 91 d

Number of exposures: daily

Dose: 0; 250; 500; 1000 mg/kg bw Method: OECD Test Guideline 408



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GLP: no

Species: rat, male and female

NOAEL: 0.5 mg/l

Application Route: Inhalation

Exposure time: 28 d

Number of exposures: 6 h/d, 5 d/wk

Dose: 0.02; 0.1; 0.5 mg/l

Method: OECD Test Guideline 412

GLP: yes

Symptoms: Local irritation

Species: rat, male and female

NOAEL: 125 mg/kg

Application Route: Dermal Exposure time: 90 d

Number of exposures: 5 d/wk

Dose: 125; 250; 500; 1000; 2000 mg/k

Method: OECD Test Guideline 411

GLP: No data available Symptoms: Local irritation

111-42-2:

Species: rat LOAEL: 320

Application Route: Oral Exposure time: 13 wks Number of exposures: daily Symptoms: Blood disorders

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

102-71-6:

No aspiration toxicity classification

111-42-2:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

102-71-6:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): >

100 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and

other aquatic inverte-

brates

: EC50 (Ceriodaphnia dubia): > 100 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Toxicity to bacteria : EC 50 (activated sludge): 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

111-42-2:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): >

100 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other aquatic inverte-

brates

: EC50 (Ceriodaphnia dubia): 30.1 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (Selenastrum

capricornutum)): 2.2 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test

Toxicity to bacteria : EC20 (activated sludge): 1,000 mg/l

End point: Respiratory rate Exposure time: 30 min

Test Type: Static

Method: OECD Test Guideline 209

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.



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Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Biodegradation: 97 %

Exposure time: 28 d

Remarks: Readily biodegradable, according to appro-

priate OECD test.

Components:

102-71-6:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 97 % Exposure time: 28 d

Method: OECD Test Guideline 301A

Theoritical Oxygen De-

mand (ThOD)

: 0.00204 mg/g

111-42-2:

Biodegradability : aerobic

Inoculum: activated sludge Biodegradation: 93 % Exposure time: 28 d

Bioaccumulative potential

Product:

Bioaccumulation : Bioconcentration factor (BCF): < 3.9

Remarks: The substance has low potential for bioac-

cumulation.

Components:

102-71-6:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 3.9

Partition coefficient: n-

octanol/water

: Remarks: No data available

111-42-2:

Partition coefficient: n-

octanol/water

: log Pow: -2.18

Mobility in soil

No data available



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Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection

of Stratospheric Ozone - CAA Section 602 Class I Sub-

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 in-

formation

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local,

state and federal regulations.

For assistance with your waste management needs including disposal, recycling and waste stream reduc-

tion, contact Deep South Chemical, Inc

at 337-837-9931.

Contaminated packaging : Empty remaining contents.

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

SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (TRIETHANOLAMINE, DIETHANOLAMINE), 9, III, Flash Point:138 - 194.4 °C(280 - 381.9 °F)

IMDG (International Maritime Dangerous Goods): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (TRIETHANOLAMINE, DIETHANOLAMINE), 9, III

DOT (Department of Transportation): UN3082, Environmentally hazardous substances, liquid, n.o.s., (TRIETHANOLAMINE, DIETHANOLAMINE), 9, III

Special Notes: : Class 9, Packing Group III when material is shipped in

quantities in one package at or above the Reportable



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Quantity and when no other hazard class applies; oth-

erwise, not regulated.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Carcinogen, Harmful by ingestion., Moderate skin

irritant, Severe eye irritant

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

CERCLA Reportable Quantity

Components	CAS-No.	Component	Calculated product
		RQ (lbs)	RQ (lbs)
Diethanolamine	111-42-2	100	667

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 : Chronic Health Hazard Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject

to the reporting requirements of SARA Title III,

Section 302.

SARA 313 : The following components are subject to reporting

levels established by SARA Title III, Section 313:

111-42-2 Diethanolamine

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

111-42-2 Diethanolamine %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). 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).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations



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			110110111 2 4101 0 1, 10, 2010
	Massachusetts Right To Kno	ow .	
	102-71-6	Triethanolamine	70 - 100 %
	111-42-2	Diethanolamine	1 - 20 %
	Pennsylvania Right To Knov	V	
	102-71-6	Triethanolamine	70 - 100 %
	7732-18-5	Water	1 - 20 %
	111-42-2	Diethanolamine	1 - 20 %
	New Jersey Right To Know		
	102-71-6	Triethanolamine	70 - 100 %
	7732-18-5	Water	1 - 20 %
	111-42-2	Diethanolamine	1 - 20 %
California Prop 65		WARNING! This product cont the State of California to cau	
	111-42-2	Diethanolamine	

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

Switzerland. New notified substances and declared preparations	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
United States TSCA Inventory	:	y (positive listing) (On TSCA Invento- ry)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	y (positive listing) (On the inventory, or in compliance with the inventory)



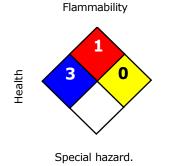
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Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:



U = _{not} significant, 1=Slight, 2 Moderate, 3High 4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suita-



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ble to their circumstances. This MSDS has been prepared by Deep South Chemical, Inc. EHS Product Safety Department (1-337-837-9931) info@deep-south-chemical.com

Material number:

16056724, 16056723, 16027676, 16024615, 770825, 601588, 596459, 593346, 568349, 89051, 72067, 54586, 88015

Key or le	gend to abbreviations and acror	nyms used i	n the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Exist- ing Chemical Substances	PICCS	Philipines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Con	ncentration 50%