according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

SECTION 1. IDENTIFICATION

Product name : Dynasolve® CU-6

Product number : 661355

Other means of identification : No data available

Manufacturer or supplier's details

Company : Versum Materials US, LLC 8555 South River Parkway Tempe,

AZ 85284-2601Exporter EIN No. 47-5632014

www.emdgroup.com/electronics Telephone: 800 837 2724

Emergency telephone : 1-800-424-9300 CHEMTREC (USA) 1-703-741-5970

CHEMTREC (International) 24 Hours/day; 7 Days/week

Recommended use of the chemical and restrictions on use

Recommended use : Polyurethane remover

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system, Central nervous system)

Short-term (acute) aquatic

hazard

Category 2

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

Hazard pictograms









according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.

H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child.

H401 Toxic to aquatic life.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection/ hearing protection.

Response:

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

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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.

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

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

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.

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version **Revision Date:** SDS Number: Date of first issue: 11.10.2024 70MDGM661355 11.10.2024 1.0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Methyl-2-pyrrolidinone, 1-	N- Methylpyrrolidinone	872-50-4	>= 30 - < 60 *
GAMMA-BUTYROLACTONE	Not Assigned	96-48-0	>= 10 - < 30 *
Ethylene glycol phenyl ether	Not Assigned	122-99-6	>= 10 - < 30 *
Propanoic acid, 3-ethoxy-, ethyl ester	Not Assigned	763-69-9	>= 5 - < 10 *
Nonylphenol, branched, eth- oxylated	Not Assigned	68412-54-4	>= 1 - < 5 *

^{*} Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled : fresh air. Call in physician.

In case of skin contact Wash off immediately with plenty of water for at least 15

minutes.

Take off immediately all contaminated clothing. Rinse skin

with water/ shower. Consult a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Seek medical treatment immediately.

Remove contact lenses.

If swallowed immediately make victim drink water (two glasses at most).

Consult a physician.

Never give anything by mouth to an unconscious person.

Most important symptoms

and effects, both acute and

delayed

Irritation and corrosion

somnolence **Drowsiness** Cough

according to the Hazardous Products Regulations



Dynasolve® CU-6

Revision Date: SDS Number: Version Date of first issue: 11.10.2024 70MDGM661355 11.10.2024 1.0

Shortness of breath

Risk of serious damage to eyes.

Risk of blindness!

Ensure that medical personnel are aware of the material(s) Notes to physician

involved and take precautions to protect themselves.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water

> Dry powder Foam

Carbon dioxide (CO2)

Unsuitable extinguishing

media

For this substance/mixture no limitations of extinguishing

agents are given.

Specific hazards during fire

fighting

Combustible.

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours

possible in the event of fire.

Fire may cause evolution of:

Carbon monoxide Nitrogen oxides (NOx)

Prevent fire extinguishing water from contaminating surface Further information

water or the ground water system.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

Special protective equipment:

for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by

wearing suitable protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec: Advice for non-emergency personnel:

Do not breathe vapors, aerosols.

Avoid substance contact. Ensure adequate ventilation.

according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures,

consult an expert.

Advice for emergency responders: Protective equipment see section 8. If possible, stop flow of product.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static dis-

charge.

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Emergency showers and eye wash stations should be readily accessible. Empty containers may contain residue which can be dangerous – do not pressurize, cut, weld, drill, grind and also do not expose such containers to heat, flame, sparks, or other ignition sources. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Observe label precautions.

Conditions for safe storage : Store in original container. Keep away from direct sunlight.

Further information on stor-

age conditions

Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Tightly

closed. Risks from decomposition products: see section 10

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl-2-pyrrolidinone, 1-	872-50-4	TWA	400 mg/m3	CA ON OEL
Ethylene glycol phenyl ether	122-99-6	TWA	25 ppm 141 mg/m3	CA ON OEL
Propanoic acid, 3-ethoxy-, ethyl ester	763-69-9	TWA	50 ppm 300 mg/m3	CA ON OEL

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
Methyl-2-pyrrolidinone, 1-	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after	100 mg/l	ACGIH BEI
				exposure ceases)		

Engineering measures: Technical measures and appropriate working operations

should be given priority over the use of personal protective

equipment.

See section 7

Personal protective equipment

Respiratory protection : Respirator with filter for organic vapor

Wear appropriate respirator when ventilation is inadequate.

required when vapours/aerosols are generated.

Hand protection

Remarks : 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 nec-

essary.

Protective measures : Wear suitable protective clothing, gloves and eye/face pro-

tection.

Eye protection : Tightly fitting safety goggles

Body Protection : Rubber or plastic boots

Flame retardant protective clothing

If there is any possibility of direct contact or exposure, wear

chemical resistant protective clothing.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Immediately change contaminated clothing. Apply preventive

skin protection. Wash hands and face after working with sub-

stance.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : Colorless - Light yellow.

according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Odor : amine-like

Odor Threshold : No data available

pH : No data available

Melting point/range :

Boiling point/boiling range : 210 °C

Flammability (solid, gas) : Remarks: Combustible.

Decomposition temperature : No data available

Flash point : 89 °C

Auto-ignition temperature : Information on components: Methyl-2-pyrrolidinone, 1-

245 °C (1.013 hPa) Method: DIN 51794

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : 0,45 hPa

Relative vapor density : No data available

Relative density : (water = 1) 1,065

Density : 1,065 g/cm3

Solubility(ies)

Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: No data available

Evaporation rate : No data available

according to the Hazardous Products Regulations



Dynasolve® CU-6

Revision Date: SDS Number: Version Date of first issue: 11.10.2024 70MDGM661355 11.10.2024 1.0

Viscosity No data available

Explosive properties Not classified as explosive.

SECTION 10. STABILITY AND REACTIVITY

Reactivity Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be

rated as critical.

The product is chemically stable under standard ambient con-Chemical stability

ditions (room temperature).

Possibility of hazardous reac- : no information available

tions

Conditions to avoid Strong heating.

Incompatible materials Oxidizing agents

Hazardous decomposition

products

in the event of fire: See section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact Skin contact

Acute toxicity

Product:

Acute Toxicity Estimate (ATE): > 2.000 mg/kg Acute oral toxicity

Method: Calculation method

Symptoms: Irritations of mucous membranes in the mouth,

pharynx, oesophagus and gastrointestinal tract.

Symptoms: mucosal irritations, Cough, Shortness of breath, Acute inhalation toxicity

Possible damages:, damage of respiratory tract

Acute dermal toxicity Acute Toxicity Estimate (ATE): > 2.000 mg/kg

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Method: Calculation method

Symptoms: Skin irritation

Components:

Methyl-2-pyrrolidinone, 1-:

Acute oral toxicity : LD50 (Rat, male and female): 4.150 mg/kg

Method: OECD Test Guideline 401

Remarks: (ECHA)

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 mg/l

Exposure time: 4 h

Test atmosphere: aerosol

Method: OECD Test Guideline 403

GLP: yes

Remarks: (ECHA)

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 402

Remarks: (ECHA)

Assessment: The substance or mixture has no acute dermal

toxicity

GAMMA-BUTYROLACTONE:

Acute oral toxicity : LD50 (Rat, male and female): 1.582 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 mg/l

Exposure time: 4 h
Test atmosphere: aerosol

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Guinea pig): 5.600 mg/kg

Ethylene glycol phenyl ether:

Acute oral toxicity : LD50 (Rat, female): 1.840 mg/kg

Method: OECD Test Guideline 401

Remarks: (ECHA)

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,14 mg/l

Exposure time: 4 h

Test atmosphere: aerosol

Method: OECD Test Guideline 412

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Remarks: (External SDS)

Assessment: The substance or mixture has no acute dermal

toxicity

Propanoic acid, 3-ethoxy-, ethyl ester:

Acute oral toxicity : LD50 (Rat): 4.300 - 5.000 mg/kg

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Acute dermal toxicity : LD50 (Guinea pig): > 19.000 mg/kg

Nonylphenol, branched, ethoxylated:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg

GLP: yes

Remarks: (ECHA)

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Skin corrosion/irritation

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

GLP : yes Remarks : (ECHA)

GAMMA-BUTYROLACTONE:

Species : Rabbit

Result : No skin irritation

Remarks : (ECHA)

Ethylene glycol phenyl ether:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No irritation Remarks : (ECHA)

Propanoic acid, 3-ethoxy-, ethyl ester:

Species : Guinea pig

according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : (ECHA)

Nonylphenol, branched, ethoxylated:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes Remarks : (ECHA)

Serious eye damage/eye irritation

Product:

Remarks : Risk of blindness!

Components:

Methyl-2-pyrrolidinone, 1-:

Species : Rabbit Result : irritating

Method : OECD Test Guideline 405

Remarks : (ECHA)

GAMMA-BUTYROLACTONE:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

GLP : yes

Ethylene glycol phenyl ether:

Species : Rabbit Result : Eye irritation

Method : OECD Test Guideline 405

Remarks : (ECHA)

Propanoic acid, 3-ethoxy-, ethyl ester:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Remarks : (ECHA)

Nonylphenol, branched, ethoxylated:

Species : Rabbit

Result : No eye irritation

Exposure time : 24 h

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Method : OECD Test Guideline 405

GLP : yes Remarks : (ECHA)

Respiratory or skin sensitization

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Routes of exposure : Skin Species : Mouse

Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Remarks : (ECHA)

Test Type : Patch test:
Routes of exposure : Skin
Species : Human
Result : negative
Remarks : (IUCLID)

GAMMA-BUTYROLACTONE:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : dermal Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitization.

GLP : yes

Ethylene glycol phenyl ether:

Test Type : Patch test:
Species : Human
Result : negative
Remarks : (IUCLID)

Test Type : Sensitisation test: Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Propanoic acid, 3-ethoxy-, ethyl ester:

Test Type : Freund's complete adjuvant test

Routes of exposure : Intradermal Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative Remarks : (ECHA)

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Nonylphenol, branched, ethoxylated:

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitization on laboratory animals.

Remarks : (ECHA)

Germ cell mutagenicity

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: (ECHA)

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Remarks: (ECHA)

Test Type: unscheduled DNA synthesis assay

Test system: mammalian cells Method: OECD Test Guideline 482

Result: negative GLP: yes

Remarks: (ECHA)

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 474

Result: negative GLP: yes

Remarks: (ECHA)

Test Type: Chromosome aberration test Species: Chinese hamster (male and female)

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

GLP: yes

Remarks: (ECHA)

GAMMA-BUTYROLACTONE:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: Positive results were obtained in some in vitro tests.

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Genotoxicity in vivo

Application Route: Oral

Method: OECD Test Guideline 477

Result: negative GLP: yes

Test Type: In vivo micronucleus test

Species: Mouse

Cell type: Bone marrow

Result: negative Remarks: (ECHA)

Ethylene glycol phenyl ether:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male)
Cell type: Liver cells
Application Route: Oral

Method: OECD Test Guideline 486

Result: negative GLP: yes

Propanoic acid, 3-ethoxy-, ethyl ester:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium

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

tation assay) Result: negative GLP: yes

Remarks: (ECHA)

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Nonylphenol, branched, ethoxylated:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Product:

No data available

Reproductive toxicity

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Reproductive toxicity - As- : Clear evidence of adverse effects on sexual function and fertil-

sessment ity, and/or on development, based on animal experiments

STOT-single exposure

Product:

No data available

Components:

Methyl-2-pyrrolidinone, 1-:

Target Organs : Respiratory system

Assessment : May cause respiratory irritation.

GAMMA-BUTYROLACTONE:

Assessment : May cause drowsiness or dizziness.

STOT-repeated exposure

Product:

No data available

Components:

GAMMA-BUTYROLACTONE:

Species : Rat, male NOAEL : 225 mg/kg Application Route : Oral

Exposure time : 90 d

Number of exposures : N11.00019274 GLP : yes

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Aspiration toxicity

Product:

No data available

Further information

Product:

Remarks : Other dangerous properties can not be excluded.

This substance should be handled with particular care.

The product has not been tested. The information is derived

from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methyl-2-pyrrolidinone, 1-:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l

Exposure time: 96 h Analytical monitoring: yes

Remarks: (ECHA)

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 24 h Remarks: (ECHA)

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 12,5 mg/l

End point: reproduction rate

Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 600 mg/l

Exposure time: 0,5 h Method: ISO 8192

GAMMA-BUTYROLACTONE:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 56 mg/l

Exposure time: 96 h

GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 500 mg/l

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

aquatic invertebrates Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2

Remarks: (ECHA)

Toxicity to algae/aquatic

plants

EC10: 50,8 mg/l Exposure time: 72 h

Toxicity to microorganisms : IC50 (microorganisms): 4.518 mg/l

Exposure time: 40 h Remarks: (ECHA)

Ethylene glycol phenyl ether:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 220 - 460 mg/l

Exposure time: 96 h Remarks: (IUCLID)

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h Remarks: (IUCLID)

Toxicity to algae/aquatic

plants

IC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

Exposure time: 72 h Remarks: (IUCLID)

Toxicity to microorganisms : EC50 (Pseudomonas putida): 880 mg/l

Exposure time: 17 h Remarks: (IUCLID)

EC10 (activated sludge): 320 mg/l

Exposure time: 17 h

Method: OECD Test Guideline 209

Propanoic acid, 3-ethoxy-, ethyl ester:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 50 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 480 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): >

115 mg/l

Exposure time: 72 h

Nonylphenol, branched, ethoxylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,218 mg/l

Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes

Method: US-EPA Remarks: (ECHA)

according to the Hazardous Products Regulations



Dynasolve® CU-6

Revision Date: SDS Number: Version Date of first issue: 11.10.2024 70MDGM661355 11.10.2024 1.0

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 0,148 mg/l

Exposure time: 48 h Remarks: (ECHA)

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): 1,5

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: (ECHA)

EC50 (Pseudokirchneriella subcapitata (green algae)): > 3

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: (ECHA)

M-Factor (Acute aquatic tox- : 1

icity)

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,006 mg/l

Exposure time: 91 d

Remarks: (in analogy to similar compounds)

(ECHA)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: ca. 7,7 µg/l Exposure time: 28 d

Test Type: flow-through test

Method: US-EPA

GLP: yes

Remarks: (ECHA)

M-Factor (Chronic aquatic

toxicity)

10

EC20: > 1.000 mg/l Toxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Remarks: (ECHA)

Persistence and degradability

Components:

Methyl-2-pyrrolidinone, 1-:

Biodegradability Inoculum: activated sludge

Concentration: 100 mg/l

Result: Readily biodegradable.

Biodegradation: 73 % Exposure time: 28 d

according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Biochemical Oxygen De-

mand (BOD)

1.100 mg/g

Incubation time: 5 d

Remarks: (Lit.)

Chemical Oxygen Demand

(COD)

1.600 mg/g Remarks: (Lit.)

BOD/ThOD : 99 %

Remarks: (IUCLID)

GAMMA-BUTYROLACTONE:

Biodegradability : Inoculum: activated sludge

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 14 d

Biochemical Oxygen De-

mand (BOD)

1.160 mg/g

Incubation time: 5 d Remarks: (External SDS)

Ethylene glycol phenyl ether:

Biodegradability : Result: Easily eliminable.

Biodegradation: 82 % Exposure time: 17 d

Method: OECD Test Guideline 302B

Result: Readily biodegradable. Biodegradation: 90 - 100 %

Exposure time: 15 d

Method: OECD Test Guideline 301A

Chemical Oxygen Demand

(COD)

2,127 mg/g

Remarks: (IUCLID)

Propanoic acid, 3-ethoxy-, ethyl ester:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301B

GLP: yes

Remarks: (ECHA)

Nonylphenol, branched, ethoxylated:

Biodegradability : Result: Not readily biodegradable.

Remarks: (ECHA)

Bioaccumulative potential

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

Components:

Methyl-2-pyrrolidinone, 1-:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: -0,46 (25 °C)

octanol/water Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

GAMMA-BUTYROLACTONE:

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n- : log Pow: -0,566 (25 °C)

octanol/water pH: 6 - 8

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

Ethylene glycol phenyl ether:

Partition coefficient: n- : log Pow: 1,2 (23 °C)

octanol/water pH: 7

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

Propanoic acid, 3-ethoxy-, ethyl ester:

Partition coefficient: n- : log Pow: 1,35

octanol/water

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor- : Discharge into the environment must be avoided.

mation No ecological testing was carried out on the preparation.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Waste material must be disposed of in accordance with the

national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned

containers like the product itself.

Contaminated packaging : When discarding an empty container, the contaminated to the

inside is removed completely and it discards according to your

according to the Hazardous Products Regulations



Dynasolve® CU-6

Version Revision Date: SDS Number: Date of first issue: 1.0 11.10.2024 70MDGM661355 11.10.2024

local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

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

(Nonylphenol, branched, ethoxylated)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen-

ger aircraft)

964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Nonylphenol, branched, ethoxylated)

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.

Domestic regulation

TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Nonylphenol, branched, ethoxylated)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes

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

according to the Hazardous Products Regulations



Dynasolve® CU-6

 Version
 Revision Date:
 SDS Number:
 Date of first issue:

 1.0
 11.10.2024
 70MDGM661355
 11.10.2024

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

NPRI Components : Methyl-2-pyrrolidinone, 1-

Nonylphenol, branched, ethoxylated

International Regulations

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

Canadian lists

No substances are subject to a Significant New Activity Notification.

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

TSCA : All substance listed on the TSCA Active Inventory

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

SECTION 16. OTHER INFORMATION

Revision Date : 11.10.2024 Date format : dd/mm/yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN