



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

National Rule Medium Activator

Version number: GHS 3.0
Replaces version of: 2021-08-18 (GHS 2)

Revision: 2022-03-28

SECTION 1: Identification

1.1 Product identifier

Trade name **National Rule Medium Activator**
Product code(s) A-M07004, A-M07016, A-M07008

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

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

P.O.R. Products
38 Portman Road
New Rochelle NY 10801
United States

Telephone: +1 914-636-0700
e-mail: support@porproducts.com
Website: www.porproducts.com

e-mail (competent person) support@porproducts.com

1.4 Emergency telephone number

Emergency information service 1-800-255-3924
ChemTel Inc.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.5	germ cell mutagenicity	1B	Muta. 1B	H340
A.6	carcinogenicity	1A	Carc. 1A	H350
A.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
A.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
B.6	flammable liquid	1	Flam. Liq. 1	H224

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

H224	Extremely flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Homopolymer of Hexamethylene Diisocyanat,
Solvent naphtha (petroleum), light arom., butyl
acetate, Isophorone Diisocyanate Homopolymer,
isophorone diisocyanate

2.3 Other hazards

Hazards not otherwise classified

Repeated exposure may cause skin dryness or cracking.
Contains isocyanates. May produce an allergic reaction.
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
butyl acetate	CAS No 123-86-4	25 - < 50	STOT SE 3 / H336 Flam. Liq. 3 / H226
Homopolymer of Hexamethylene Diisocyanat	CAS No 28182-81-2	25 - < 50	Acute Tox. 4 / H332 Skin Sens. 1 / H317 STOT SE 3 / H335
Isophorone Diisocyanate Homopolymer	CAS No 53880-05-0	10 - < 25	Skin Sens. 1B / H317 STOT SE 3 / H335
Solvent naphtha (petroleum), light arom.	CAS No 64742-95-6	1 - < 5	Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 Flam. Liq. 1 / H224
1,2,4-trimethylbenzene	CAS No 95-63-6	1 - < 5	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
1,3,5-trimethylbenzene	CAS No 108-67-8	1 - < 5	STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
cumene	CAS No 98-82-8	0.1 - < 1	Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
isophorone diisocyanate	CAS No 4098-71-9	0.1 - < 1	Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

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7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	1,3,5-trimethylbenzene	108-67-8	REL	25 (10 h)	125 (10 h)						NIOSH REL
US	mesitylene	108-67-8	PEL (CA)	25	125						Cal/OSHA PEL
US	mesitylene	108-67-8	TLV®	10							ACGIH® 2022
US	isophorone diisocyanate	4098-71-9	REL	0.005 (10 h)	0.045 (10 h)	0.02	0.18				NIOSH REL
US	isophorone diisocyanate	4098-71-9	TLV®	0.005							ACGIH® 2021
US	isophorone diisocyanate (IPDI)	4098-71-9	PEL (CA)	0.005	0.045	0.02					Cal/OSHA PEL
US	1,2,4-trimethylbenzene	95-63-6	REL	25 (10 h)	125 (10 h)						NIOSH REL
US	1,2,4-trimethylbenzene	95-63-6	TLV®	10							ACGIH® 2022
US	cumene	98-82-8	REL	50 (10 h)	245 (10 h)						NIOSH REL
US	cumene	98-82-8	TLV®	5							ACGIH® 2021
US	cumene	98-82-8	PEL	50	245						29 CFR 1910.1000
US	cumene (isopropylbenzene)	98-82-8	PEL (CA)	50	245						Cal/OSHA PEL

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	0.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Isophorone Diisocyanate Homopolymer	53880-05-0	DNEL	0.29 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Isophorone Diisocyanate Homopolymer	53880-05-0	DNEL	0.58 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1,2,4-trimethylbenzene	95-63-6	DNEL	16,171 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
cumene	98-82-8	DNEL	100 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
cumene	98-82-8	DNEL	250 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
cumene	98-82-8	DNEL	15.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
isophorone diisocyanate	4098-71-9	DNEL	0.045 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
isophorone diisocyanate	4098-71-9	DNEL	0.045 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.127 mg/l	aquatic organisms	freshwater	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.013 mg/l	aquatic organisms	marine water	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	266,701 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	26,670 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	53,183 mg/kg	terrestrial organisms	soil	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	6.46 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	0.12 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	0.12 mg/l	aquatic organisms	marine water	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	2.41 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	2.34 mg/kg	terrestrial organisms	soil	short-term (single instance)
cumene	98-82-8	PNEC	0.035 mg/l	aquatic organisms	freshwater	short-term (single instance)
cumene	98-82-8	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)
cumene	98-82-8	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cumene	98-82-8	PNEC	3.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
cumene	98-82-8	PNEC	0.322 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
cumene	98-82-8	PNEC	0.624 mg/kg	terrestrial organisms	soil	short-term (single instance)
isophorone diisocyanate	4098-71-9	PNEC	0.027 mg/l	aquatic organisms	freshwater	short-term (single instance)
isophorone diisocyanate	4098-71-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
isophorone diisocyanate	4098-71-9	PNEC	10.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
isophorone diisocyanate	4098-71-9	PNEC	98.51 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
isophorone diisocyanate	4098-71-9	PNEC	1.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
isophorone diisocyanate	4098-71-9	PNEC	19.8 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic



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Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	>37 °C at 101.3 kPa
Flash point	37 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	1.4 vol%
- Upper explosion limit (UEL)	7.6 vol%
Vapor pressure	≤240 kPa at 37.8 °C
Density	8.46 lb/gal
Vapor density	this information is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	≥280 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Solid content	53.56 %
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	inhalation: dust/mist	1.5 mg _i /4h
1,2,4-trimethylbenzene	95-63-6	inhalation: vapor	11 mg _i /4h
isophorone diisocyanate	4098-71-9	inhalation: dust/mist	0.04 mg _i /4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.



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Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
cumene	98-82-8	2B	

Legend

2B Possibly carcinogenic to humans

National Toxicology Program (United States): Report on Carcinogens

Name of substance	CAS No	Classification	Number
cumene	98-82-8	Reasonably anticipated to be a human carcinogen	13th Report on Carcinogens

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.



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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butyl acetate	123-86-4	LC50	18 mg/l	fish	96 h
butyl acetate	123-86-4	EC50	18 mg/l	fish	96 h
butyl acetate	123-86-4	ErC50	335 mg/l	algae	24 h
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	EC50	>1,000 mg/l	algae	72 h
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	ErC50	>1,000 mg/l	algae	72 h
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	EL50	>100 mg/l	algae	72 h
Isophorone Diisocyanate Homopolymer	53880-05-0	LC50	>1.51 mg/l	fish	96 h
Isophorone Diisocyanate Homopolymer	53880-05-0	EC50	>3.36 mg/l	aquatic invertebrates	48 h
Isophorone Diisocyanate Homopolymer	53880-05-0	ErC50	>3.1 mg/l	algae	72 h
Solvent naphtha (petroleum), light arom.	64742-95-6	LL50	8.2 mg/l	fish	96 h
Solvent naphtha (petroleum), light arom.	64742-95-6	EL50	4.5 mg/l	aquatic invertebrates	48 h
1,2,4-trimethylbenzene	95-63-6	LC50	7.72 mg/l	fish	96 h
1,2,4-trimethylbenzene	95-63-6	EC50	2.356 mg/l	algae	96 h
1,3,5-trimethylbenzene	108-67-8	LC50	20.57 mg/l	fish	24 h
1,3,5-trimethylbenzene	108-67-8	EC50	50 mg/l	aquatic invertebrates	24 h
1,3,5-trimethylbenzene	108-67-8	ErC50	53 mg/l	algae	48 h
cumene	98-82-8	LC50	4.7 mg/l	fish	96 h
cumene	98-82-8	EC50	2.14 mg/l	aquatic invertebrates	48 h
cumene	98-82-8	ErC50	2.01 mg/l	algae	72 h
isophorone diisocyanate	4098-71-9	LC50	>208 mg/l	fish	96 h
isophorone diisocyanate	4098-71-9	EC50	27 mg/l	aquatic invertebrates	48 h
isophorone diisocyanate	4098-71-9	ErC50	>70 mg/l	algae	72 h

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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butyl acetate	123-86-4	EC50	34.2 mg/l	aquatic invertebrates	21 d
butyl acetate	123-86-4	LC50	43.5 mg/l	aquatic invertebrates	21 d
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	EC50	645.7 mg/l	microorganisms	3 h
Isophorone Diisocyanate Homopolymer	53880-05-0	EC50	>10,000 mg/l	microorganisms	3 h
Solvent naphtha (petroleum), light arom.	64742-95-6	EL50	10 mg/l	fish	21 d
Solvent naphtha (petroleum), light arom.	64742-95-6	EC50	15.41 mg/l	microorganisms	40 h
cumene	98-82-8	EC50	1.5 mg/l	aquatic invertebrates	21 d
cumene	98-82-8	LC50	>3 mg/l	aquatic invertebrates	21 d
isophorone diisocyanate	4098-71-9	EC50	263 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.



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Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

DOT	Paint
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

DOT	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1263, Paint, (contains: butyl acetate, Homopolymer of Hexamethylene Diisocyanat), 3, III
Reportable quantity (RQ)	64,288 lbs (29,187 kg) (xylene) (Hexamethylene-1,6Diisocyanate)
Danger label(s)	3

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Special provisions (SP) 367, B1, B52, B131, IB3, T2, TP1, TP29

ERG No 128

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -

Danger label(s) 3



Special provisions (SP) 163, 223, 367, 955

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-E, S-E

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3



Special provisions (SP) A3, A72, A192

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

Name of substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
isophorone diisocyanate	4098-71-9	g	500	500

Legend

g The TPQ was recalculated (September 8, 2003) since it was mistakenly calculated in the April 22, 1987, final rule under the wrong assumption that this chemical is a reactive solid, when in fact it is a liquid. RQ for this chemical was adjusted on September 11, 2006.



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- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
isophorone diisocyanate	4098-71-9		1994-12-31
1,2,4-trimethylbenzene	95-63-6		1986-12-31
cumene	98-82-8		1986-12-31

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
cumene	98-82-8		3 4	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Solvent naphtha (petroleum), light arom.	64742-95-6		EC Annex VI CMRs - Cat. 1B
1,2,4-trimethylbenzene	95-63-6		CA NLS IRIS Neurotoxicants
1,3,5-trimethylbenzene	108-67-8		CA NLS IRIS Neurotoxicants
cumene	98-82-8		CA NLS CA TACs CDC 4th National Exposure Report IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHA RELs Prop 65
isophorone diisocyanate	4098-71-9		EC Annex VI Resp. Sens. - Cat. 1

- Toxic or Hazardous Substance List (MA-TURA)



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Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
isophorone diisocyanate		1050			1.0 %
1,2,4-trimethylbenzene	95-63-6				1.0 %
cumene	98-82-8				0.1 %
butyl acetate	123-86-4		LHS		1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
1,2,4-trimethylbenzene	25551-13-7	A	
1,3,5-trimethylbenzene	25551-13-7	A	
butyl acetate	123-86-4	A, O	

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
isophorone diisocyanate	4098-71-9		R1
1,2,4-trimethylbenzene	95-63-6		F2
cumene	98-82-8		F3 R1
1,3,5-trimethylbenzene	25551-13-7		F2
butyl acetate	123-86-4		F3

Legend

- F2 Flammable - Second Degree
F3 Flammable - Third Degree
R1 Reactive - First Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
CYCLOHEXANE, 5-ISOCYANATO-1-(ISOCYANATOMETHYL)-1,3,3-TRIMETHYL-	4098-71-9	E
PSEUDOCUMENE	95-63-6	E
BENZENE, (1-METHYLETHYL)-	98-82-8	E
BENZENE, TRIMETHYL-	25551-13-7	E
ACETIC ACID, BUTYL ESTER	123-86-4	E



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Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
isophorone diisocyanate	4098-71-9	T
1,2,4-trimethylbenzene	25551-13-7	T
cumene	98-82-8	T, F
1,3,5-trimethylbenzene	25551-13-7	T
butyl acetate	123-86-4	T, F

Legend

F Flammability (NFPA®)

T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
cumene	98-82-8		cancer

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



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Category	Degree of hazard	Description
Flammability	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed

Legend

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.