



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Flash Floor Part A

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

1.2.1 Relevant uses

Fillers
Repair

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Maintenance Solutions
100 Newland Rd.
Townville, SC 29689 / USA
Phone 1-888-735-2747
Homepage www.flashfloor.net
E-mail flash.floor@yahoo.com

Address enquiries to

Technical information flash.floor@yahoo.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company 1-888-735-2747

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 4: H227 Combustible Liquid.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2: H315 Causes skin irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Eye Irrit. 2: H319 Causes serious eye irritation.
Acute Tox. 4: H332 Harmful if inhaled.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3: H335 May cause respiratory irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Hazard pictograms	  
Signal word	DANGER
Hazard statements	<p>H227 Combustible Liquid. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours / spray. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection. P284 In case of inadequate ventilation wear respiratory protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331 Do NOT induce vomiting. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor. P312 Call a POISON CENTER / doctor if you feel unwell.</p>

2.3 Other hazards

Human health dangers	Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter is used.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
40 - 60	Methylenediphenyl diisocyanate CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9 GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317
20 - 30	Solvent naphtha (petroleum), heavy arom. CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3 GHS/CLP: Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. Consult a doctor immediately.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions
Cough
Vertigo
Nausea, vomiting.
Headache
Tiredness
Redness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	Dry powder. Carbon dioxide. Foam.
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Hydrogen cyanide (HCN).
Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.

Heat causes increase in pressure and risk of bursting - Keep away from the container.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/aerosol.
Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.
Remove persons to safety.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Vacuuming in situ required.
Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Ground/bond container and receiving equipment.
Use explosion-proofed equipment/fittings and non-sparkling tools.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Showers and eye wash stations should be provided.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Keep away from water.
Do not store together with oxidizing agents.
Do not store together with acids and alkalis.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters**

Ingredients with occupational
exposure limits to be monitored

	Substance
	Methylenediphenyl diisocyanate
	CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9
	Long-term exposure: 0,005 ppm, 0,05 mg/m ³ , NIOSH
	Solvent naphtha (petroleum), heavy arom.
	CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3
	Long-term exposure: 100 ppm, 525 mg/m ³ , OSHA

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7mm: Butyl rubber, >480 min 0,7mm: Nitrile rubber, >480 min 0,7mm: Neoprene, >480 min
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	No information available.
Odor	mild aromatic
Odour threshold	No information available.
pH-value	not applicable
value [1%]	not applicable
Boiling point [°C]	> 148°C / > 300°F
Flash point [°C]	62°C / 145°F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,1 (20 °C / 68,0 °F) Bulk
density [kg/m³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity**10.1 Reactivity**

Upon decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.
 Reactions with water.
 Reactions with alcohols.
 Reactions with amines.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
 Contact with moisture.
 Strong heating.
 Sunlight

10.5 Incompatible materials

See SECTION 10.3.
Various metals.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, oral, > 5000 mg/kg.
ATE-mix, inhalativ (vapour), > 10 - 20 mg/l/4h.

Range [%]	Substance
40 - 60	Methylenediphenyl diisocyanate, CAS: 101-68-8
	LD50, dermal, Rabbit: > 9000 mg/kg.
	LD50, oral, Rat: > 5000 mg/kg.
	LC50, inhalative, Rat: 0,49 mg/l/4h (Lit.).
20 - 30	Solvent naphtha (petroleum), heavy arom., CAS: 64742-94-5
	LD50, oral, Rat: > 5000 mg/kg (Lit.).

Serious eye damage/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Sensitizing. Calculation method
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. May cause respiratory irritation. Vapours may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. May cause damage to organs through prolonged or repeated exposure. Calculation method
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. Suspected of causing cancer. Calculation method
Aspiration hazard	Toxicological data of complete product are not available. May be fatal if swallowed and enters airways. Calculation method
General remarks	Symptoms: abdominal pain, nausea, vomiting, diarrhoea. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
40 - 60	Methylenediphenyl diisocyanate, CAS: 101-68-8
	EC50, (24h), Daphnia magna: 0,35 mg/L (Lit.).
	IC50, (72h), Desmodemus subspicatus: 1,5 mg/L (Lit.).
20 - 30	Solvent naphtha (petroleum), heavy arom. Cas: 64742-94-5)
	EC50, (72h), Pseudokirchnerella subcapita: 3,8 mg/l (IUCLID).
	LC50, (96h), Oncorhynchus mykiss: 3,0 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 1,1 mg/l (IUCLID).

12.2 Persistence and degradability**Behaviour in environment compartments**

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

CAS 101-68-8: The product is not readily biodegradable.

12.3 Bioaccumulative potential

Not likely to bioaccumulate

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

ProductDispose of as hazardous waste.
For recycling, consult manufacturer.**Contaminated packaging**Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

SECTION 14: Transport information**14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- Classification Code

M6

- Label



Marine transport in accordance with IMDG

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- Label



DOT Road Shipment Information (49 CFR) UN/NA NA1993 Combustible liquid, n.o.s.

Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GHS):	GHS Rev.5 (2013)
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (1999/13/CE)	No information available.

15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H332 Harmful if inhaled.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 4: H227 Combustible Liquid. (On basis of test data)
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Flash Floor Part B

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

1.2.1 Relevant uses

Fillers
Repair

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Maintenance Solutions
100 Newland Rd.
Townville, SC 29689 / USA
Phone 888.405.8825
Fax +1 864.287.4536
Homepage www.flashfloor.net
E-mail flash.floor@yahoo.com

Address enquiries to

Technical information flash.floor@yahoo.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company 1-888-735-2747

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 4: H227 Combustible Liquid.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Hazard statements

H227 Combustible Liquid.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours / spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P308+P313 IF exposed or concerned: Get medical advice / attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

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2.3 Other hazards

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
40 - 60	Solvent naphtha (petroleum), heavy arom. CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3 GHS/CLP: Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.**SECTION 4: First aid measures**

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.
Headache

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.**SECTION 5: Fire-fighting measures**

5.1 Extinguishing media

Suitable extinguishing media

Dry powder.
Carbon dioxide.
Foam.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Not combusted hydrocarbons.

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5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Wear full protective suit.

Heat causes increase in pressure and risk of bursting - Keep away from the container.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/aerosol.

Use personal protective equipment.

Remove persons to safety.

High risk of slipping due to leakage/spillage of product.

Keep away from all sources of ignition.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

Vacuuming in situ required.

Keep away from open flames, hot surfaces and sources of ignition.

Take precautionary measures against static discharges.

Use explosion-proofed equipment/fittings and non-sparkling tools.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

Contaminated work clothing should not be allowed out of the workplace.

Showers and eye wash stations should be provided.

Clean skin thoroughly after work, apply skin cream.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters**

Ingredients with occupational
exposure limits to be monitored

	Substance
	Solvent naphtha (petroleum), heavy arom.
	CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3
	Long-term exposure: 100 ppm, 525 mg/m ³ , OSHA

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7mm: Butyl rubber, >480 min 0,7mm: Nitrile rubber, >480 min 0,7mm: Neoprene, >480 min
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	No information available.
Odor	mild aromatic
Odour threshold	No information available.
pH-value	not applicable
value [1%]	not applicable
Boiling point [°C]	> 176°C / > 350°F
Flash point [°C]	62°C / 145°F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,00 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity**10.1 Reactivity**

Upon decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with isocyanates.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Strong heating.
Sunlight

10.5 Incompatible materials

See SECTION 10.3.

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10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, > 5000 mg/kg.

Range [%]	Substance
40 - 60	Solvent naphtha (petroleum), heavy arom., CAS: 64742-94-5 LD50, oral, Rat: > 5000 mg/kg (Lit.).

Serious eye damage/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Vapours may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Toxicological data of complete product are not available. May be fatal if swallowed and enters airways. Calculation method
General remarks	Symptoms: abdominal pain, nausea, vomiting, diarrhoea. May cause irritation of eye and skin. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
40 – 60	Solvent naphtha (petroleum), heavy arom. Cas: 64742-94-5)
	EC50, (72h), Pseudokirchnerella subcapita: 3,8 mg/l (IUCLID).
	LC50, (96h), Oncorhynchus mykiss: 3,0 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 1,1 mg/l (IUCLID).

12.2 Persistence and degradability

Readily biodegradable in the environment

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

12.3 Bioaccumulative potential

Not likely to bioaccumulate in aquatic organisms

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

Product Dispose of as hazardous waste.
For recycling, consult manufacturer.

Contaminated packaging Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

SECTION 14: Transport information**14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name

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14.2 UN proper shipping nameTransport by land according to
ADR/RID

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- Classification Code

M6

- Label

Marine transport in accordance with
IMDG

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA Not regulated

- Label

DOT Road Shipment Information (49 CFR)

UN 1268 Petroleum Distillates, N.O.S. (Petroleum Naptha), MARINE POLLUTANT

Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

NATIONAL REGULATIONS (GHS):

GHS Rev.5 (2013)

- Observe employment restrictions
for peopleObserve employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (1999/13/CE)

No information available.

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15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H302 Harmful if swallowed.
 H411 Toxic to aquatic life with long lasting effects.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 4: H227 Combustible Liquid. (On basis of test data)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



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