

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

1.1. Product identifier

Trade name or designation of the mixture	SP 154H
Registration number	-
Synonyms	None.
Product code	N/A
Issue date	12-12-2012
Version number	24
Revision date	16-08-2019
Supersedes date	18-04-2017

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

Identified uses	Industrial uses: Uses of substances as such or in preparations at industrial sites Industrial uses: Uses of preparations at industrial sites.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	SI Group-Béthune S.A.S	
Address	1111 Avenue G. Washington Bethune-Cedex 62404 FR	
Division		
Telephone	Telephone No.	0033/3/21686767
	Fax	0033/3/21686786
e-mail	sds.info@siigroup.com	
Contact person	Not available.	

1.4. Emergency telephone number	Emergency	0033/3/21686782
	ORFILA	0033/01/45425959

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Center	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Center	+359 2 9154 409 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Center	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Center	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Hungary National Emergency Phone Number	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin sensitisation

Category 1

H317 - May cause an allergic skin reaction.

Hazard summary

May form combustible dust concentrations in air. May cause eye irritation. May cause skin irritation. May cause irritation to the respiratory system. May cause irritation of the mucous membranes. May cause gastrointestinal disturbances. May cause sensitisation by skin contact. May cause leucoderma. Prolonged exposure may cause chronic effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:

METHYLOLS

Hazard pictograms



Signal word

Warning

Hazard statements

H317

May cause an allergic skin reaction.

Precautionary statements

Prevention

P261

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

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313

IF exposed or concerned: Get medical advice/attention.

Storage

Not available.

Disposal

P501

Dispose of contents/container in accordance with local regulation.

Supplemental label information

May form combustible dust concentrations in air.

2.3. Other hazards May cause leucodermia.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
METHYLOLS	>1,0	N/A	-	-	
Classification:	Skin Sens. 1;H317				
XYLENE	1,0 - 7,0	1330-20-7 215-535-7	01-2119488216-32	601-022-00-9	#
Classification:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332				
ETHYL BENZENE	<1,0	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, STOT RE 2;H373, Aquatic Chronic 3;H412				
PARA-TERTIARY-BUTYLPHENOL	0,1 - 0,2	98-54-4 202-679-0	01-2119489419-21-XXXX 01-2119489419-21-XXXX 01-2119489419-21-0007 01-2119489419-21-0006 01-2119489419-21-0007	604-090-00-8	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318, Repr. 2;H361f, Aquatic Chronic 1;H410				
FORMALDEHYDE	<0,01	50-00-0 200-001-8	01-2119488953-20	605-001-00-5	
Classification:	Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Skin Sens. 1;H317, Acute Tox. 3;H331, STOT SE 3;H335, Muta. 2;H341, Carc. 1B;H350				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Community workplace exposure limit(s).

67/548: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Take off contaminated clothing and shoes immediately. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Move to fresh air. For breathing difficulties, oxygen may be necessary. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention if symptoms occur.

Skin contact

Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if symptoms occur. Continue rinsing.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed

Exposure to powder or dusts may be irritating to eyes, nose and throat.

4.3. Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	High concentration of airborne dust may form explosive mixture with air. The Minimum Ignition Energy for phenolic resins can be as low as 3 mJ [millijoules]. The Minimum Explosive Concentration for phenolic resins can be as low as 0.025 oz/ft ³ or ~20 g/m ³ .
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Fire may produce irritating, corrosive and/or toxic gases.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
Special fire fighting procedures	Cool containers exposed to heat with water spray and remove container, if no risk is involved. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. High concentrations of dust may form explosive mixture with air. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back.
Specific methods	In the event of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Remove all sources of ignition. Avoid inhalation of vapours and spray mists. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Avoid inhalation of vapours and spray mists. Wear appropriate protective equipment and clothing during clean-up. Remove all sources of ignition. Ventilate closed spaces before entering them.
6.2. Environmental precautions	Prevent further leakage or spillage if safe to do so. Eliminate sources of ignition. Ventilate the contaminated area. Prevent spreading over a wide area (e.g. by containment or oil barriers). Prevent entry into waterways, sewer, basements or confined areas. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
6.3. Methods and material for containment and cleaning up	Eliminate ignition sources including sources of electrical, static or frictional sparks. Ventilate the contaminated area. Avoid dust formation. Wear appropriate protective equipment and clothing during clean-up. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Clean surface thoroughly to remove residual contamination. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
6.4. Reference to other sections	Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Use good personal hygiene practices Guard against dust accumulation of this material. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. "Empty" containers retain product residue (liquid or vapour) and can be dangerous. Do not re-use empty containers.
7.2. Conditions for safe storage, including any incompatibilities	Guard against dust accumulation of this material. Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Use care in handling/storage.
7.3. Specific end use(s)	Industrial uses: Uses of substances as such or in preparations at industrial sites

SECTION 8: Exposure controls/personal protection

Exposure guidelines All PPE use is to be determined by a qualified person.

ECHA DNEL: General population via dermal local short-term

FORMALDEHYDE (CAS 50-00-0)

12 µg/cm² Assessment Factor: 3

ECHA DNEL: General population via dermal systemic long-term

FORMALDEHYDE (CAS 50-00-0)	102 mg/kg bw/day Assessment Factor: 20
XYLENE (CAS 1330-20-7)	108 mg/kg bw/day Assessment Factor: 20

ECHA DNEL: General population via inhalation local short-term

FORMALDEHYDE (CAS 50-00-0)	0,1 mg/m ³
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ECHA DNEL: General population via inhalation systemic long-term

ETHYL BENZENE (CAS 100-41-4)	15 mg/m ³ Assessment Factor: 5
FORMALDEHYDE (CAS 50-00-0)	3,2 mg/m ³ Assessment Factor: 1
XYLENE (CAS 1330-20-7)	14,8 mg/m ³ Assessment Factor: 5

ECHA DNEL: General population via oral systemic long-term

ETHYL BENZENE (CAS 100-41-4)	1,6 mg/kg bw/day Assessment Factor: 40
FORMALDEHYDE (CAS 50-00-0)	4,1 mg/kg bw/day Assessment Factor: 20
XYLENE (CAS 1330-20-7)	1,6 mg/kg bw/day Assessment Factor: 40

ECHA DNEL: Workers via dermal local short-term

FORMALDEHYDE (CAS 50-00-0)	37 µg/cm ² Assessment Factor: 1
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ECHA DNEL: Workers via dermal systemic long-term

ETHYL BENZENE (CAS 100-41-4)	180 mg/kg bw/day Assessment Factor: 12
FORMALDEHYDE (CAS 50-00-0)	240 mg/kg bw/day Assessment Factor: 12
XYLENE (CAS 1330-20-7)	180 mg/kg bw/day Assessment Factor: 12

ECHA DNEL: Workers via inhalation local short-term

ETHYL BENZENE (CAS 100-41-4)	293 mg/m ³ Assessment Factor: 3
FORMALDEHYDE (CAS 50-00-0)	0,375 mg/m ³
XYLENE (CAS 1330-20-7)	289 mg/m ³ Assessment Factor: 3

ECHA DNEL: Workers via inhalation systemic long-term

ETHYL BENZENE (CAS 100-41-4)	77 mg/m ³ Assessment Factor: 3
FORMALDEHYDE (CAS 50-00-0)	9 mg/m ³ Assessment Factor: 1
XYLENE (CAS 1330-20-7)	77 mg/m ³ Assessment Factor: 3

ECHA DNEL: Workers via inhalation systemic short-term

XYLENE (CAS 1330-20-7)	289 mg/m ³
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PNECs Aquatic: ECHA

ETHYL BENZENE (CAS 100-41-4)	0,01 mg/l Assessment factor: 10 0,1 mg/l 0,1 mg/l Assessment factor: 10 1,37 mg/kg 13,7 mg/kg 9,6 mg/l Assessment factor: 10
FORMALDEHYDE (CAS 50-00-0)	2,3 mg/kg
XYLENE (CAS 1330-20-7)	0,327 mg/l Assessment factor: 1 12,46 mg/kg Assessment factor: 1 6,58 mg/l Assessment factor: 1

PNECs Predator: ECHA

ETHYL BENZENE (CAS 100-41-4)	0,02 g/kg
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PNECs Terrestrial: ECHA

ETHYL BENZENE (CAS 100-41-4)	2,68 mg/kg
FORMALDEHYDE (CAS 50-00-0)	0,2 mg/kg
XYLENE (CAS 1330-20-7)	2,31 mg/kg Assessment factor: 1

Switzerland SUVA Limit Values at the Workplace: Skin designation

ETHYL BENZENE (CAS 100-41-4)	Can be absorbed through the skin.
XYLENE (CAS 1330-20-7)	Can be absorbed through the skin.

UK EH40 WEL: Skin designation

ETHYL BENZENE (CAS 100-41-4)	Can be absorbed through the skin.
XYLENE (CAS 1330-20-7)	Can be absorbed through the skin.

8.1. Control parameters**Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	Ceiling	880 mg/m ³
		200 ppm
	MAK	440 mg/m ³
		100 ppm

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
FORMALDEHYDE (CAS 50-00-0)	Ceiling	0,6 mg/m ³
		0,5 ppm
	MAK	0,6 mg/m ³ 0,5 ppm
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	MAK	0,5 mg/m ³ 0,08 ppm
	STEL	2,5 mg/m ³ 0,4 ppm
	MAK	221 mg/m ³ 50 ppm
XYLENE (CAS 1330-20-7)	STEL	442 mg/m ³ 100 ppm

Belgium. Exposure Limit Values.

Components	Type	Value	Form
DUST	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
ETHYL BENZENE (CAS 100-41-4)	STEL	551 mg/m ³ 125 ppm	
	TWA	442 mg/m ³ 100 ppm	
FORMALDEHYDE (CAS 50-00-0)	STEL	0,38 mg/m ³ 0,3 ppm	
		XYLENE (CAS 1330-20-7)	STEL
	TWA	221 mg/m ³ 50 ppm	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
DUST	TWA	4 mg/m ³	Respirable fraction.
		3,5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
ETHYL BENZENE (CAS 100-41-4)	STEL	545 mg/m ³	
	TWA	435 mg/m ³	
FORMALDEHYDE (CAS 50-00-0)	STEL	2 mg/m ³	
	TWA	1 mg/m ³	
XYLENE (CAS 1330-20-7)	STEL	442 mg/m ³ 100 ppm	
		TWA	221 mg/m ³ 50 ppm

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	MAC	442 mg/m ³

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
		100 ppm
	STEL	884 mg/m3
		200 ppm
FORMALDEHYDE (CAS 50-00-0)	MAC	2,5 mg/m3
		2 ppm
	STEL	2,5 mg/m3
		2 ppm
XYLENE (CAS 1330-20-7)	MAC	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
FORMALDEHYDE (CAS 50-00-0)	TWA	3 mg/m3
		2 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
DUST	TWA	5 mg/m3	Dust.
ETHYL BENZENE (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
FORMALDEHYDE (CAS 50-00-0)	Ceiling	1 mg/m3	
	TWA	0,5 mg/m3	
XYLENE (CAS 1330-20-7)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
FORMALDEHYDE (CAS 50-00-0)	Ceiling	0,4 mg/m3
		0,3 ppm
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TLV	0,5 mg/m3
		0,08 ppm
XYLENE (CAS 1330-20-7)	TLV	109 mg/m3
		25 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
DUST	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		1 mg/m3	Dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
FORMALDEHYDE (CAS 50-00-0)	TWA	442 mg/m ³	
		100 ppm	
	Ceiling	1,2 mg/m ³	
XYLENE (CAS 1330-20-7)	TWA	0,6 mg/m ³	
		0,5 ppm	
	STEL	450 mg/m ³	
	TWA	200 mg/m ³	
		50 ppm	

Finland. Workplace Exposure Limits

Components	Type	Value	Form
ETHYL BENZENE (CAS 100-41-4)	STEL	880 mg/m ³	
		200 ppm	
	TWA	220 mg/m ³	
		50 ppm	
FORMALDEHYDE (CAS 50-00-0)	Ceiling	1,2 mg/m ³	
		1 ppm	
	TWA	0,37 mg/m ³	
		0,3 ppm	
XYLENE (CAS 1330-20-7)	STEL	440 mg/m ³	
		100 ppm	
	TWA	220 mg/m ³	
		50 ppm	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
DUST	VME	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
ETHYL BENZENE (CAS 100-41-4)	VLE	442 mg/m ³	
		100 ppm	
	VME	88,4 mg/m ³	
		20 ppm	
FORMALDEHYDE (CAS 50-00-0)	VLE	1 ppm	
	VME	0,5 ppm	
XYLENE (CAS 1330-20-7)	VLE	442 mg/m ³	
		100 ppm	
	VME	221 mg/m ³	
		50 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
DUST	TWA	4 mg/m ³	Inhalable dust.
		0,3 mg/m ³	Respirable dust.
ETHYL BENZENE (CAS 100-41-4)	TWA	88 mg/m ³	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
FORMALDEHYDE (CAS 50-00-0)	TWA	20 ppm	
		0,37 mg/m3	
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TWA	0,3 ppm	Vapour and aerosol.
		0,5 mg/m3	
XYLENE (CAS 1330-20-7)	TWA	0,08 ppm	Vapour and aerosol.
		440 mg/m3	
		100 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
DUST	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
ETHYL BENZENE (CAS 100-41-4)	AGW	88 mg/m3	
FORMALDEHYDE (CAS 50-00-0)	AGW	20 ppm	
		0,37 mg/m3	
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	AGW	0,3 ppm	Vapour and aerosol.
		0,5 mg/m3	
XYLENE (CAS 1330-20-7)	AGW	0,08 ppm	Vapour and aerosol.
		440 mg/m3	
		100 ppm	

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	545 mg/m3
	TWA	125 ppm 435 mg/m3 100 ppm
FORMALDEHYDE (CAS 50-00-0)	STEL	2,5 mg/m3
	TWA	2 ppm 2,5 mg/m3
XYLENE (CAS 1330-20-7)	STEL	2 ppm
		650 mg/m3 150 ppm
	TWA	435 mg/m3 100 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
DUST	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	
FORMALDEHYDE (CAS 50-00-0)	STEL	0,6 mg/m3	
	TWA	0,6 mg/m3	
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
	TWA	221 mg/m3	

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
DUST	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm	
FORMALDEHYDE (CAS 50-00-0)	TWA	200 mg/m3	
	STEL	50 ppm	
	STEL	1,2 mg/m3	
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TWA	1 ppm	
	TWA	0,4 mg/m3	
	TWA	0,3 ppm	
XYLENE (CAS 1330-20-7)	TWA	0,5 mg/m3	
	STEL	0,08 ppm	
	STEL	442 mg/m3	
	TWA	100 ppm	
	TWA	109 mg/m3	
	TWA	25 ppm	

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
DUST	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm	
FORMALDEHYDE (CAS 50-00-0)	TWA	442 mg/m3	
	STEL	100 ppm	
	STEL	0,4 ppm	
XYLENE (CAS 1330-20-7)	TWA	0,2 ppm	
	STEL	442 mg/m3	
	TWA	100 ppm	
	TWA	221 mg/m3	
	TWA	50 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm
	TWA	442 mg/m3
FORMALDEHYDE (CAS 50-00-0)	TWA	100 ppm
	Ceiling	0,3 ppm
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	100 ppm
	TWA	221 mg/m3

Italy. Occupational Exposure Limits Components**Type****Value**

50 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**Components****Type****Value****Form**

DUST

TWA

2 mg/m3

Dust.

2 mg/m3

ETHYL BENZENE (CAS 100-41-4)

STEL

884 mg/m3

200 ppm

TWA

442 mg/m3

100 ppm

FORMALDEHYDE (CAS 50-00-0)

TWA

0,5 mg/m3

XYLENE (CAS 1330-20-7)

STEL

442 mg/m3

100 ppm

TWA

221 mg/m3

50 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**Components****Type****Value****Form**

DUST

TWA

5 mg/m3

Respirable fraction.

10 mg/m3

Inhalable fraction.

1 mg/m3

Dust.

ETHYL BENZENE (CAS 100-41-4)

STEL

884 mg/m3

200 ppm

TWA

442 mg/m3

100 ppm

FORMALDEHYDE (CAS 50-00-0)

Ceiling

1 mg/m3

1,2 ppm

TWA

0,6 mg/m3

0,5 ppm

XYLENE (CAS 1330-20-7)

STEL

450 mg/m3

100 ppm

TWA

200 mg/m3

50 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**Components****Type****Value**

ETHYL BENZENE (CAS 100-41-4)

STEL

884 mg/m3

200 ppm

TWA

442 mg/m3

100 ppm

XYLENE (CAS 1330-20-7)

STEL

442 mg/m3

100 ppm

TWA

221 mg/m3

50 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**Components****Type****Value**

ETHYL BENZENE (CAS 100-41-4)

STEL

884 mg/m3

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
XYLENE (CAS 1330-20-7)		200 ppm
	TWA	442 mg/m3
		100 ppm
	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

Netherlands. OELs (binding)

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	430 mg/m3
	TWA	215 mg/m3
FORMALDEHYDE (CAS 50-00-0)	STEL	0,5 mg/m3
	TWA	0,15 mg/m3
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	210 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
DUST	TLV	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
ETHYL BENZENE (CAS 100-41-4)	TLV	20 mg/m3	
		5 ppm	
FORMALDEHYDE (CAS 50-00-0)	Ceiling	1,2 mg/m3	
	TLV	1 ppm	
XYLENE (CAS 1330-20-7)		TLV	0,6 mg/m3
	0,5 ppm		
	108 mg/m3		
	25 ppm		

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
DUST	TWA	10 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.
ETHYL BENZENE (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
FORMALDEHYDE (CAS 50-00-0)	STEL	1 mg/m3	
	TWA	0,5 mg/m3	
XYLENE (CAS 1330-20-7)	TWA	100 mg/m3	

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
		442 mg/m3
	TWA	100 ppm

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
DUST	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
ETHYL BENZENE (CAS 100-41-4)	STEL	125 ppm	
	TWA	100 ppm	
FORMALDEHYDE (CAS 50-00-0)	Ceiling	0,3 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
FORMALDEHYDE (CAS 50-00-0)	STEL	3 mg/m3 2 ppm
	TWA	1,2 mg/m3 1 ppm
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
DUST	TWA	2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable aerosol fraction
		2 mg/m3	Respirable aerosol fraction
		10 mg/m3	Aerosol
		10 mg/m3	Dust.
		10 mg/m3	Total
		10 mg/m3	
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3 200 ppm	
	TWA	442 mg/m3 100 ppm	
FORMALDEHYDE (CAS 50-00-0)	STEL	0,74 mg/m3	
		0,6 ppm	
		0,37 mg/m3 0,3 ppm	

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TWA	0,5 mg/m ³	
		0,08 ppm	
XYLENE (CAS 1330-20-7)	STEL	442 mg/m ³	
		100 ppm	
	TWA	221 mg/m ³	
		50 ppm	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value
ETHYL BENZENE (CAS 100-41-4)	TWA	442 mg/m ³
		100 ppm
FORMALDEHYDE (CAS 50-00-0)	TWA	0,62 mg/m ³
		0,5 ppm
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TWA	0,5 mg/m ³
		0,08 ppm
XYLENE (CAS 1330-20-7)	TWA	221 mg/m ³
		50 ppm

Spain. Carcinogens and Mutagens with Limit Values (Table 2)

Components	Type	Value
FORMALDEHYDE (CAS 50-00-0)	TWA	0,37 mg/m ³
		0,3 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
DUST	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m ³	
		200 ppm	
	TWA	441 mg/m ³	
		100 ppm	
XYLENE (CAS 1330-20-7)	STEL	442 mg/m ³	
		100 ppm	
	TWA	221 mg/m ³	
		50 ppm	

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
DUST	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	450 mg/m ³	
		100 ppm	
	TWA	200 mg/m ³	
		50 ppm	
FORMALDEHYDE (CAS 50-00-0)	Ceiling	0,74 mg/m ³	
		0,6 ppm	
	TWA	0,37 mg/m ³	

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
XYLENE (CAS 1330-20-7)	Ceiling	0,3 ppm	
		442 mg/m3	
	TWA	100 ppm	
		221 mg/m3	
		50 ppm	

Switzerland SUVA Limit Values at the Workplace

Components	Type	Value	Form
DUST	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	220 mg/m3	
	TWA	50 ppm	
FORMALDEHYDE (CAS 50-00-0)	STEL	220 mg/m3	
		50 ppm	
FORMALDEHYDE (CAS 50-00-0)	TWA	0,74 mg/m3	
		0,6 ppm	
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	STEL	0,37 mg/m3	
		0,3 ppm	
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	TWA	1 mg/m3	
		0,16 ppm	
XYLENE (CAS 1330-20-7)	STEL	0,5 mg/m3	
		0,08 ppm	
XYLENE (CAS 1330-20-7)	TWA	870 mg/m3	
		200 ppm	
		435 mg/m3	
		100 ppm	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
DUST	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
ETHYL BENZENE (CAS 100-41-4)	STEL	552 mg/m3	
	TWA	125 ppm	
FORMALDEHYDE (CAS 50-00-0)	STEL	441 mg/m3	
		100 ppm	
FORMALDEHYDE (CAS 50-00-0)	TWA	2,5 mg/m3	
		2 ppm	
XYLENE (CAS 1330-20-7)	STEL	2,5 mg/m3	
		2 ppm	
XYLENE (CAS 1330-20-7)	TWA	441 mg/m3	
		100 ppm	
		220 mg/m3	
		50 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value	Form
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU Components

Components	Type	Value
XYLENE (CAS 1330-20-7)	TWA	442 mg/m ³
		100 ppm
	STEL	442 mg/m ³
		100 ppm
TWA	221 mg/m ³	
	50 ppm	

Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended) Components

Components	Value	Determinant	Specimen	Sampling Time
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)	2 mg/l	PTBP	Urine	*
XYLENE (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in blood	*
	1,5 mg/l	Xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in blood	*
	14,13 umol/l	Xylene	Blood	*

* - For sampling details, please see the source document.

Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*
XYLENE (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health Components

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
XYLENE (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

* - For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) Components

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
XYLENE (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

* - For sampling details, please see the source document.

Germany. TRGS 903, BAT List (Biological Limit Values) Components

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	300 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)	2 mg/l	PTBP (nach Hydrolyse)	Urine	*

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
XYLENE (CAS 1330-20-7)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*

* - For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	1500 mg/g	mandelic acid	Creatinine in urine	*
	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
XYLENE (CAS 1330-20-7)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	8,03 mg/g	2-ethylphenol	Creatinine in urine	*
	12 mg/l	2-ethylphenol	Urine	*
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	1,36 mg/g	p-tert-butylphenol	Creatinine in urine	*
	2 mg/l	p-tert-butylphenol	Urine	*
XYLENE (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	Xylene	Blood	*

* - For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	700 mg/g	Suma del ácido mandélico y el ácido fenilgloxílico	Creatinine in urine	*
XYLENE (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

* - For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling Time
ETHYL BENZENE (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
PARA-TERTIARY-BUTYLPHE NOL (CAS 98-54-4)	2 mg/l	p-tert-Butylphenol	Urine	*
XYLENE (CAS 1330-20-7)	1,5 g/g	Methyl-Hippursäure	Creatinine in urine	*
	1,5 mg/l	Xylol	Blood	*

* - For sampling details, please see the source document.

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
XYLENE (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)**General Population**

Components	Value	Assessment factor	Notes
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)			
Long-term, Systemic, Dermal	0,03 mg/kg bw/day	2	
Long-term, Systemic, Inhalation	0,09 mg/m ³	2	
Long-term, Systemic, Oral	0,03 mg/kg bw/day	2	

Workers

Components	Value	Assessment factor	Notes
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)			
Long-term, Systemic, Dermal	0,07 mg/kg bw/day	1	
Long-term, Systemic, Inhalation	0,50 mg/m ³	1	

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)			
Freshwater	0,01 mg/l	10	
Marine water	0,00 mg/l	100	
Predator	46,67 mg/kg food	30	
Sediment (freshwater)	0,27 mg/kg sediment dw		
Sediment (marine water)	0,03 mg/kg sediment dw		
Soil	0,25 mg/kg soil dw		
STP	1,50 mg/l	10	

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ventilation should be sufficient to effectively remove, and prevent buildup of, any vapors, dusts, or fumes that may be generated during handling or thermal processing. In order to ensure appropriate electrical safety practices are followed, consult applicable standards. These may include guidelines such as the National Fire Protection Association [NFPA] 70, "The National Electrical Code" and NFPA 499, "Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas ". NOTE: since this material's vapors, dust or fumes can form explosive mixtures in air, ensure that any potential areas where explosions may occur are designed to minimize potential damage. For recommendations to prevent such explosions and associated damage, consult applicable guidelines such as NFPA 69, "Standard on Explosion Prevention Systems" and/or NFPA 68, "Guide for Venting Deflagrations".

Individual protection measures, such as personal protective equipment**General information**

Avoid contact with eyes. Avoid contact with skin.

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear: Face-shield. Eye wash fountain is recommended.

Skin protection**- Hand protection**

Wear protective gloves.

- Other

Do not get this material in contact with skin. Wear suitable protective clothing.

Respiratory protection

Do not breathe dust/fume/gas/mist/vapours/spray. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Do not get in eyes, on skin, on clothing. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls

Contain spills and prevent releases and observe national regulations on emissions. Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Yellow solid.
Physical state	Solid.
Form	Solid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	70 - 100 °C (158 - 212 °F)
Initial boiling point and boiling range	Not available.
Flash point	> 95,0 °C (> 203,0 °F) Closed cup
Evaporation rate	< Ether
Flammability (solid, gas)	Not available.
Vapour pressure	N/A
Vapour density	> Air
Relative density	1,1 g/cm ³
Solubility(ies)	
Solubility (water)	Not very soluble [<1%]
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Flash point class	Combustible IIIB
Specific gravity	1,1

SECTION 10: Stability and reactivity

10.1. Reactivity	Avoid contact with oxidisers or reducing agents.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Heat, flames and sparks. Avoid dust close to ignition sources.
10.5. Incompatible materials	Incompatible with strong acids and bases.
10.6. Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information	Incomplete toxicological data are available for this product. Occupational exposure to the substance or mixture may cause adverse effects.
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Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	May cause skin irritation. May cause leucoderma (skin depigmentation) May cause an allergic skin reaction.
Eye contact	Dust or powder may irritate eye tissue.
Ingestion	Ingestion of this product may cause nausea, vomiting and diarrhoea.

Symptoms	Product dust may be irritating to eyes, skin and respiratory system.
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11.1. Information on toxicological effects

Acute toxicity	May cause eye/skin irritation. May cause irritation of respiratory tract. May cause leucoderma. May cause sensitisation by skin contact. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
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Components	Species	Test Results
ETHYL BENZENE (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	4100 mg/kg
Inhalation		
LCL0	Rat	4000 ppm, 4 hours
Oral		
LD50	Rat	3500 mg/kg
FORMALDEHYDE (CAS 50-00-0)		
Acute		
Dermal		
LD50	Rabbit	270 mg/kg
Inhalation		
LC50	Rat	165 ppm
Oral		
LD50	Rat	100 mg/kg
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)		
Acute		
Dermal		
	Rabbit	> 5000 mg/kg [No observed deaths]
Inhalation		
	Rat	5,6 mg/l, 4 hours [20% mortality]
Oral		
LD50	Rat	5660 mg/kg
XYLENE (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	> 1700 mg/kg
Inhalation		
LC50	Rat	5000 ppm, 4 hours
Oral		
LD50	Rat	4300 mg/kg
Skin corrosion/irritation	May be irritating to the skin.	
Serious eye damage/eye irritation	Dust or powder may irritate eye tissue.	
Respiratory sensitisation	Not classified.	
Skin sensitisation	May cause sensitisation by skin contact.	
Germ cell mutagenicity	Not classified.	
France INRS: Mutagen category		
FORMALDEHYDE (CAS 50-00-0)	Substances which cause concern for humans owing to the possibility that they may induce heritable mutations in the germ cells of humans.	
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended		
Not listed.		
Carcinogenicity	Not classified.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
ETHYL BENZENE (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
FORMALDEHYDE (CAS 50-00-0)	1 Carcinogenic to humans.	
XYLENE (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.	
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended		
FORMALDEHYDE (CAS 50-00-0)	Carcinogenicity	
Reproductive toxicity	Not classified.	

Germany DFG MAK (advisory) Hazard: Pregnancy risk group

ETHYL BENZENE (CAS 100-41-4)

There is no reason to fear damage to the embryo or foetus when MAK and BAT values are observed.

FORMALDEHYDE (CAS 50-00-0)

There is no reason to fear damage to the embryo or foetus when MAK and BAT values are observed.

PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)

Either there are no data for an assessment of damage to the embryo or foetus or the currently available data are not sufficient for classification in one of the groups A-C.

XYLENE (CAS 1330-20-7)

Either there are no data for an assessment of damage to the embryo or foetus or the currently available data are not sufficient for classification in one of the groups A-C.

Switzerland SUVA Limit Values at the Workplace: Developmental toxin

FORMALDEHYDE (CAS 50-00-0)

The fetus will not be harmed if the MAK value is complied with.

Specific target organ toxicity - single exposure Not classified.**Specific target organ toxicity - repeated exposure** Not classified.**Aspiration hazard** Not classified.**Mixture versus substance information** Not applicable.**Other information** The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.**SECTION 12: Ecological information****12.1. Toxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Water Hazard Class WGK 1 (Self-classification)

Components	Species		Test Results
ETHYL BENZENE (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1,37 - 4,4 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	26,74 - 43,67 mg/l, 24 hours
		Fathead minnow (<i>Pimephales promelas</i>)	11,5 - 12,7 mg/l, 96 hours
		Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	4,2 mg/l, 96 hours
FORMALDEHYDE (CAS 50-00-0)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>)	4,3 - 7,8 mg/l, 48 hours
Fish	LD	Rainbow trout	50 ppm, 24 hours
	TDLO	Catfish (<i>Plecostomus commersoni</i>)	32 ppm, 24 hours
<i>Acute</i>			
Fish	LC50	Zebra danio (<i>Danio rerio</i>)	6,9 mg/l, 144 hours
PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	3,4 - 4,5 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	4,71 - 5,62 mg/l, 96 hours
<i>Acute</i>			
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	> 1 mg/l, 96 hours
XYLENE (CAS 1330-20-7)			
Aquatic			
Crustacea	LC50	Water flea (<i>Daphnia magna</i>)	100 - 1000 mg/l, 24 hours
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	11,9 - 25,1 mg/l, 96 hours
	TLM	Bluegill (<i>Lepomis macrochirus</i>)	22 ppm, 96 hours

12.2. Persistence and degradability Not inherently biodegradable.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

ETHYL BENZENE	3,15
FORMALDEHYDE	0,35
PARA-TERTIARY-BUTYLPHENOL	3,31
XYLENE	3,12

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not considered mobile.

Mobility in general The product is insoluble in water.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

12.7. Additional information

Estonia Dangerous substances in groundwater Data

ETHYL BENZENE (CAS 100-41-4)	Ethylbenzene 0,5 ug/l Ethylbenzene 50 ug/l
FORMALDEHYDE (CAS 50-00-0)	Pesticides (total) 0,5 ug/l Pesticides (total) 5 ug/l
XYLENE (CAS 1330-20-7)	Pesticides (total) 0,5 ug/l Pesticides (total) 5 ug/l

Estonia Dangerous substances in soil Data

ETHYL BENZENE (CAS 100-41-4)	Ethylbenzene 0,1 mg/kg Ethylbenzene 5 mg/kg Ethylbenzene 50 mg/kg
FORMALDEHYDE (CAS 50-00-0)	Synthetic pesticides (total of active substances) 0,5 mg/kg Synthetic pesticides (total of active substances) 20 mg/kg Synthetic pesticides (total of active substances) 5 mg/kg
XYLENE (CAS 1330-20-7)	Synthetic pesticides (total of active substances) 0,5 mg/kg Synthetic pesticides (total of active substances) 20 mg/kg Synthetic pesticides (total of active substances) 5 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

EU waste code Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information Dispose in accordance with all applicable regulations. In the EU, the waste should be classified in accordance with regulations made under the Directive 91/689/EEC. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies.

Special precautions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ROAD/RAIL (ADR/RID)

Packaging type: BULK-- TANK TRUCK/TANK CAR
Proper shipping name: NOT REGULATED FOR TRANSPORT

Packaging type: DRUM(s)/BAG(s)
Proper shipping name: NOT REGULATED FOR TRANSPORT

Packaging type: INTERMEDIATE BULK CONTAINER
Proper shipping name: NOT REGULATED FOR TRANSPORT

Packaging type: PAIL(s)/CAN(s)

Proper shipping name: NOT REGULATED FOR TRANSPORT

Air (ICAO/IATA)

Packaging type: DRUM(s)/BAG(s)
Proper shipping name: Not restricted for transport

Packaging type: PAIL(s)/CAN(s)
Proper shipping name: Not restricted for transport

VESSEL (IMDG)

Packaging type: BULK-- TANK TRUCK/TANK CAR
Proper shipping name: Not regulated for transport

Packaging type: DRUM(s)/BAG(s)
Proper shipping name: Not regulated for transport

Packaging type: INTERMEDIATE BULK CONTAINER
Proper shipping name: Not regulated for transport

Packaging type: PAIL(s)/CAN(s)
Proper shipping name: Not regulated for transport

General information Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

FORMALDEHYDE (CAS 50-00-0)

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

ETHYL BENZENE (CAS 100-41-4)

FORMALDEHYDE (CAS 50-00-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

FORMALDEHYDE (CAS 50-00-0)

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

FORMALDEHYDE (CAS 50-00-0)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ETHYL BENZENE (CAS 100-41-4)

FORMALDEHYDE (CAS 50-00-0)

XYLENE (CAS 1330-20-7)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

ETHYL BENZENE (CAS 100-41-4)

FORMALDEHYDE (CAS 50-00-0)

PARA-TERTIARY-BUTYLPHENOL (CAS 98-54-4)

XYLENE (CAS 1330-20-7)

Directive 94/33/EC on the protection of young people at work, as amended

ETHYL BENZENE (CAS 100-41-4)

FORMALDEHYDE (CAS 50-00-0)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

This preparation is classified as dangerous according to European Union legislation. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).
ANSI: American National Standards Institute.
Maximum permissible concentration of biological working substances (BAT: Biologische Arbeitsstofftoleranzwerte).
BOD5: Biochemical oxygen demand within 5 days.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
DNEL: Derived No Effect Level.
EC: European Community.
EC50: Effective Concentration 50%.
ECHA: European Chemical Agency.
ICAO: International Civil Aviation Organization.
IMDG Code: International Maritime Dangerous Goods Code.
LC: Lethal Concentration.
LC50: Lethal Concentration 50%.
LD50: Lethal Dose 50%.
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
N/A: Not available.
NY: New York State.
OSHA: Occupational Safety & Health Administration.
PBT: Persistent, bioaccumulative, toxic.
PEL: Permissible Exposure Limit.
PNEC: Predicted No Effect Concentration.
PPE: Personal Protective Equipment.
RCRA: Resource Conservation Recovery Act.
SCBA: Self-contained breathing apparatus.
STEL: Short-term Exposure Limit.
TDG: Transport of Dangerous Goods.
TSCA: Toxic Substance Control Act.
TWA: Time Weighted Average.
USA: United States of America.

References

vPvB: very Persistent, very Bioaccumulative.
ACGIH: American Conference of Governmental Industrial Hygienists.
ECHA: European Chemical Agency.
ERG: Emergency Response Guide
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
HSDB® - Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer - Monographs
NTP: National Toxicology Program - Report on Carcinogens
OSHA: Occupational Safety and Health Administration.
SI Group®: Test results
[Vendor]

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculator methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Training information

Follow training instructions when handling this material.

Disclaimer

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer