SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

Dykem® Cross Check™ Torque Seal® - Red

Registration number

None. **Synonyms Part Number** 83316

30-December-2020 Issue date

Version number

Revision date 31-March-2022 14-June-2021 Supersedes date

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

Identified uses Inspection Paint Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name **ITW Performance Polymers**

Bay 150 **Address**

> Shannon Industrial Estate Shannon, CO. Clare Ireland V14 DF82 353 (61) 771 500

Telephone

353 (61) 471 285

+44(0)1235 239 670 (24h) In Case of Emergency

Email mail@itwpp.com

Manufacturer

Company name ITW Pro Brands **Address** 805 E. Old 56 Highway

Olathe, KS 66061

(U.S.A.) Country

Tel: +1 800-443-9536

In Case of Emergency +1 800-535-5053 (Infotrac)

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

Physical hazards

Flammable liquids Category 3 H226 - Flammable liquid and

vapour.

Health hazards

Serious eye damage/eye irritation H318 - Causes serious eye Category 1

damage.

Skin sensitisation H317 - May cause an allergic skin Category 1

reaction.

Carcinogenicity Category 1B H350 - May cause cancer.

Specific target organ toxicity - single Category 1 H370 - Causes damage to organs.

exposure

Specific target organ toxicity - repeated Category 1 (central nervous system) H372 - Causes damage to organs

exposure (central nervous system) through prolonged or repeated exposure.

H304 - May be fatal if swallowed Aspiration hazard Category 1

and enters airways.

Material name: Dykem® Cross Check™ Torque Seal® - Red

Hazard summary May be ignited by heat, sparks or flames. May be fatal if swallowed and enters airways. Causes

serious eye damage. Causes damage to organs. May cause cancer. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. Occupational exposure to the substance

or mixture may cause adverse health effects.

2.2. Label elements

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

Contains: butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime, Diacetone alcohol,

Ethylbenzene, solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant

Hazard pictograms



Signal word Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H350 May cause cancer.

H370 Causes damage to organs.

H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapour.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P331 Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant	3	64742-88-7 265-191-7	-	649-405-00-X	
Classification:	STOT RE	1;H372, Asp. Tox. 1;l	H304		
butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	1 - 5	96-29-7 202-496-6	-	616-014-00-0	
Classification:	1;H318, S		mg/kg), Skin Irrit. 2;H315, E irc. 1B;H350, STOT SE 1;H		
Diacetone alcohol	1 - 5	123-42-2 204-626-7	-	603-016-00-1	
Classification:	Eye Irrit. 2	;H319			
Ethylbenzene	0,1 - 1	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	Flam. Liq. Asp. Tox.		l;H332;(ATE: 11 mg/l), STO	T RE 2;H373,	

List of abbreviations and symbols that may be used above

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical **General information**

advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If Ingestion

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

Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic

effects.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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 Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Use water spray to reduce vapours or divert vapour cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

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

8.1. Control parameters

123-42-2)

Occupational exposure limits

Components	Туре	Value	
Diacetone alcohol (CAS 123-42-2)	MAK	240 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
Belgium. Exposure Limit Values			
Components	Туре	Value	
Diacetone alcohol (CAS	TWA	241 mg/m3	

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Belgium. Exposure Limit Values Components	Туре	Value
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3
		125 ppm
	TWA	87 mg/m3
		20 ppm
Bulgaria. OELs. Regulation No 13 on pro Components	otection of workers agai Type	nst risks of exposure to chemical agents at work Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
	TWA	435 mg/m3
Croatia. Dangerous Substance Exposur Components	e Limit Values in the Wo Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
Diacetone alcohol (CAS 123-42-2)	MAC	241 mg/m3
123-42-2)		50 ppm
	STEL	362 mg/m3
		75 ppm
Ethylbenzene (CAS	MAC	442 mg/m3
100-41-4)		100 ppm
	STEL	884 mg/m3
	0122	200 ppm
Czech Republic. OELs. Government Dec	eroo 361	200 FF
Czech Republic. OELS. Government Dec Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	Ceiling	300 mg/m3
	TWA	200 mg/m3
Ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 mg/m3
Denmark. Exposure Limit Values	_	
Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	TLV	240 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3
,		50 ppm
Estonia. OELs. Occupational Exposure l Components	Limits of Hazardous Sub Type	ostances (Regulation No. 105/2001, Annex), as amended Value
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
120 72-2)		50 ppm
	TWA	120 mg/m3
		25 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
,		200
		200 ppm
	TWA	200 ppm 442 mg/m3

Finland. Workplace Exp Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	STEL	360 mg/m3
,		75 ppm
	TWA	240 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3
		200 ppm
	TWA	220 mg/m3
		50 ppm
France. Threshold Limit Components	Values (VLEP) for Occupational Exposur Type	e to Chemicals in France, INRS ED 984 Value
Diacetone alcohol (CAS 123-42-2)	VME	240 mg/m3
Regulatory status:	Indicative limit (VL)	
	, ,	50 ppm
Regulatory status:	Indicative limit (VL)	
Ethylbenzene (CAS	VLE	442 mg/m3
100-41-4)	Regulatory hinding (VPC)	
Regulatory status:	Regulatory binding (VRC)	100 ppm
Regulatory status:	Regulatory binding (VRC)	του ρριτι
Regulatory Status.	VME	88,4 mg/m3
Regulatory status:	Regulatory binding (VRC)	00,4 mg/mo
regulatory status.	regulatory billiaming (VIVO)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	20 ppm
		20 ppm vestigation of Health Hazards of Chemical Compo
Germany. DFG MAK List n the Work Area (DFG)		
Germany. DFG MAK List n the Work Area (DFG) Components Diacetone alcohol (CAS	t (advisory OELs). Commission for the In	vestigation of Health Hazards of Chemical Compo Value 96 mg/m3
Germany. DFG MAK List n the Work Area (DFG) Components Diacetone alcohol (CAS	t (advisory OELs). Commission for the In	vestigation of Health Hazards of Chemical Compo
Germany. DFG MAK List n the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS	t (advisory OELs). Commission for the In	vestigation of Health Hazards of Chemical Compo Value 96 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	t (advisory OELs). Commission for the Interpretation Type TWA	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl	Type TWA TWA TWA TWA	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value Value
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value Value
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 196-29-7) Diacetone alcohol (CAS	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value 1 mg/m3
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 196-29-7) Diacetone alcohol (CAS	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Polace Value 1 mg/m3 0,3 ppm 96 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 26-29-7) Diacetone alcohol (CAS 123-42-2)	Type TWA TWA TWA Title Ambient Air at the Work Type AGW AGW	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm place Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Polace Value 1 mg/m3 0,3 ppm 96 mg/m3
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS	Type TWA TWA TWA Title Ambient Air at the Work Type AGW AGW	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm place Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW AGW AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 98 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW AGW AGW AGW AGW Io. 90/1999, as amended)	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 98 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lincomponents Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Ethylbenzene (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Greece. OELs (Decree No Components	Type TWA TWA TWA Tipe Type TWA TWA Type AGW S AGW AGW AGW Type AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Olace Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value 1 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Greece. OELs (Decree N	Type TWA TWA TWA mit Values in the Ambient Air at the Work Type AGW AGW AGW AGW AGW Io. 90/1999, as amended)	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm blace Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 88 mg/m3 20 ppm 96 mg/m3 20 ppm 88 mg/m3 20 ppm
Germany. DFG MAK List In the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lin Components Diacetone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Ethylbenzene (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Greece. OELs (Decree N Components Diacetone alcohol (CAS	Type TWA TWA TWA Tipe Type TWA TWA Type AGW S AGW AGW AGW Type AGW	Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm Olace Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value 1 mg/m3
Germany. DFG MAK List in the Work Area (DFG) Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Germany. TRGS 900, Lir Components Diacetone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 123-42-2) Ethylbenzene (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Greece. OELs (Decree N Components Diacetone alcohol (CAS	Type TWA TWA TWA Tipe Type TWA TWA Type AGW S AGW AGW AGW Type AGW	vestigation of Health Hazards of Chemical Composition Value 96 mg/m3 20 ppm 88 mg/m3 20 ppm value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 88 mg/m3 20 ppm Value Value 360 mg/m3

Components	Туре	Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm
Hungary. OELs. Joint Decree on C Components	hemical Safety of Workplace Type	s Value
Ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)	TWA	442 mg/m3
celand. OELs. Regulation 154/199	9 on occupational exposure	limits
Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
Ireland. Occupational Exposure L	mits	
Components	Туре	Value
butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)	STEL	33 mg/m3
,		10 ppm
	TWA	10 mg/m3
		3 ppm
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Italy. Occupational Exposure Limi Components		Value
	Type	
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Latvia. OELs. Occupational expos Components	ure limit values of chemical s Type	substances in work environment Value
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
,		200 ppm
	TWA	442 mg/m3
		100 ppm

Chemical Substances, Gener Type	Value
STEL	240 mg/m3
	50 ppm
TWA	120 mg/m3
	25 ppm
STEL	884 mg/m3
	200 ppm
TWA	442 mg/m3
	100 ppm
nal exposure limit values (Ann Type	ex I), Memorial A Value
STEL	884 mg/m3
	•
	200 ppm
ure Limit Values (L.N. 227. of	Occupational Health and Safety Authority Act (CAP. 424
Туре	Value
STEL	884 mg/m3
	200 ppm
TWA	442 mg/m3
	100 ppm
Туре	Value
STEL	430 mg/m3
TWA	215 mg/m3
r Contaminants in the Workpla Type	ace Value
	120 mg/m3
TLV	120 Hg/H3
	25 ppm
TLV	20 mg/m3
· - v	20 mg/m3
	5 ppm
of Labour and Social Policy of harmful health factors in the v	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
of Labour and Social Policy of harmful health factors in the v Type	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value
of Labour and Social Policy of harmful health factors in the v	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
of Labour and Social Policy of harmful health factors in the v Type	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value
of Labour and Social Policy of harmful health factors in the v Type	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3
of Labour and Social Policy of harmful health factors in the v Type TWA	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3
r of Labour and Social Policy of harmful health factors in the v Type TWA STEL	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm
of Labour and Social Policy of harmful health factors in the v Type TWA	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3
of Labour and Social Policy of harmful health factors in the v Type TWA STEL	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3 0 ppm
r of Labour and Social Policy of harmful health factors in the v Type TWA STEL	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3 0 ppm
r of Labour and Social Policy of harmful health factors in the volume of Type TWA STEL TWA 10/2001 (Journal of the Republ	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3 0 ppm
of Labour and Social Policy of harmful health factors in the vortex Type TWA STEL TWA 00/2001 (Journal of the Republication Type	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3 0 ppm ic - 1 Series A, n.266) Value 884 mg/m3
of Labour and Social Policy of harmful health factors in the vortex Type TWA STEL TWA 00/2001 (Journal of the Republication Type	5 ppm on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 240 mg/m3 0 ppm 400 mg/m3 0 ppm 200 mg/m3 0 ppm ic - 1 Series A, n.266) Value
	STEL TWA STEL TWA nal exposure limit values (Ann Type STEL SURE Limit Values (L.N. 227. of Contaminants in the Workplat Type TLV

Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Romania. OELs. Protection of wo	rkers from exposure to chemi	cal agents at the workplace
Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	STEL	250 mg/m3
		53 ppm
	TWA	150 mg/m3
		32 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Slovakia. OELs. Regulation No. 3	00/2007 concerning protection	of health in work with chemical agents
Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
,		200 ppm
	TWA	442 mg/m3
		100 ppm
		against risks due to exposure to chemicals wille work
Official Gazette of the Republic o		against risks due to exposure to chemicals while work Value 1 mg/m3
Official Gazette of the Republic of Components outanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS	of Slovenia) Type	
Official Gazette of the Republic of Components outanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS	of Slovenia) Type	Value
Official Gazette of the Republic of Components Outanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 06-29-7) Diacetone alcohol (CAS	of Slovenia) Type	Value 1 mg/m3
Official Gazette of the Republic of Components Outanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 06-29-7) Diacetone alcohol (CAS	of Slovenia) Type TWA	Value 1 mg/m3 0,3 ppm
Official Gazette of the Republic of Components outanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS	of Slovenia) Type TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3
Cofficial Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS	of Slovenia) Type TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Line Components	of Slovenia) Type TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Line Components Components Discrete (CAS 100-41-4)	of Slovenia) Type TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS	of Slovenia) Type TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3
Official Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 26-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2)	Type TWA TWA TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm
Cofficial Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 26-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 123-42-2)	Type TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3
Cofficial Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 26-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 123-42-2)	Type TWA TWA TWA TWA TWA TWA TYPE TWA STEL	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm
(Official Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 123-42-2)	Type TWA TWA TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm 441 mg/m3
(Official Gazette of the Republic of Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 123-42-2)	Type TWA TWA TWA TWA TWA TWA TYPE TWA STEL	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA TWA TWA Mits Type TWA STEL TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm 441 mg/m3
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA TWA TWA TWA TYPE TWA STEL TWA At Authority (AV), Occupational	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm 441 mg/m3 100 ppm
Components Dutanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lin Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA TWA TWA TWA TWA TWA	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm 441 mg/m3 100 ppm 1 Exposure Limit Values (AFS 2015:7) Value
(Official Gazette of the Republic of Components butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4) Spain. Occupational Exposure Lic Components Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Type TWA TWA TWA TWA TWA TWA TYPE TWA TWA STEL TWA At Authority (AV), Occupational Type	Value 1 mg/m3 0,3 ppm 96 mg/m3 20 ppm 442 mg/m3 100 ppm Value 241 mg/m3 50 ppm 884 mg/m3 200 ppm 441 mg/m3 100 ppm 1 Exposure Limit Values (AFS 2015:7) Value 240 mg/m3

Components	Туре	Value
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3
		200 ppm
	TWA	220 mg/m3
		50 ppm
Switzerland. SUVA Grenzwerte a	nm Arbeitsplatz	
Components	Туре	Value
Diacetone alcohol (CAS 23-42-2)	STEL	192 mg/m3
		40 ppm
	TWA	96 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3
		50 ppm
	TWA	220 mg/m3
		50 ppm
JK. EH40 Workplace Exposure L	_imits (WELs)	
Components	Туре	Value
Diacetone alcohol (CAS 23-42-2)	STEL	362 mg/m3
		75 ppm
	TWA	241 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3
		125 ppm
	TWA	441 mg/m3
		100 ppm
EU. Indicative Exposure Limit Va Components	alues in Directives 91/322/EEC, Type	2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Value
Ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)		
100-41-4)		200 ppm

Biological limit values

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

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	Ethylbenzene	Blood	*
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	14,1 umol/l	Ethylbenzene	Blood	*

100 ppm

Czech Republic. Limit Values for Indictators 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
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*

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

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

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
* - For sampling details	, please see the sourc	e document.		
France. Biological ind	icators of exposure (IBE) (National Institute	for Research a	nd Security (INRS, ND 2065)
France. Biological ind Components	icators of exposure (Value	IBE) (National Institute Determinant	e for Research a Specimen	nd Security (INRS, ND 2065) Sampling Time
_	•	• •		
Components Ethylbenzene (CAS	Value 1500 mg/g	Determinant Acide mandélique	Specimen Creatinine in	Sampling Time
Components Ethylbenzene (CAS 100-41-4)	Value 1500 mg/g , please see the source	Acide mandélique e document.	Specimen Creatinine in	Sampling Time

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

250 mg/g

Ethylbenzene (CAS

100-41-4)

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

Mandelsäure

plus

Creatinine in

urine

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
	1500 mg/g	mandelic acid	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	
Ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*	
	12 mg/l	2 and 4-ethylphenol	Urine	*	

^{* -} 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** Ethylbenzene (CAS Creatinine in 700 mg/g Suma del acido mandélico y el 100-41-4) urine ácido fenilglioxílico

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

Ethylbenzene (CAS 600 mg/g Mandelsäure plus Creatinine in wrine	,	•	in the Workplace and Determinant	n the Workplace as per SUVA) Determinant Specimen Sampling Time						
Phenylglyoxyls äure	`	600 mg/g	Mandelsäure plus Phenylglyoxyls	Creatinine in						

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

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels Not available. (DNELs)

Predicted no effect

Not available.

concentrations (PNECs)

Exposure guidelines

EU Exposure Limit Values: Skin designation

Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

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

butanone oxime; ethyl methyl ketoxime; ethyl methyl

Diacetone alcohol (CAS 123-42-2)

Can be absorbed through the skin.

ketone oxime (CAS 96-29-7)

Can be absorbed through the skin.

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8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection

Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves.

- Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or

engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. Liquid. **Form** Colour Red. Odour Mild.

Melting point/freezing point

Not available.

Boiling point or initial boiling

point and boiling range

136,1 - 251,7 °C (276,98 - 485,06 °F)

Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1.1 %

(%)

Flammability limit - upper

7 %

(%)

Flash point 40,6 °C (105,1 °F) **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. pН

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Vapour pressure Not available. Vapour density > 1 (air = 1)Relative density Not available. Not available. **Particle characteristics**

Other safety characteristics

Explosive properties Not explosive. **Oxidising properties** Not oxidising. VOC 39,94%, 385 g/L

SECTION 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

10.2. Chemical stabilityMaterial is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

decomposition temperature. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous

Carbon oxides.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause damage to organs by inhalation. Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes.

Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components Species Test Results

Diacetone alcohol (CAS 123-42-2)

Acute Oral

LD50 Rat 3000 mg/kg

Ethylbenzene (CAS 100-41-4)

Acute Oral

LD50 Rat 3500 mg/kg

solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant (CAS 64742-88-7)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

Vapour

LC50 Rat > 4,5 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Chilean Spanish went out in Job 18-0024189, French and German were reviewed under

17-0023466 and Hindi under 17-0023485

Carcinogenicity May cause cancer.

ACGIH Carcinogens

Ethylbenzene (CAS 100-41-4) Confirmed animal carcinogen with unknown relevance to humans.

A3

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)

2B Possibly carcinogenic to humans.

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

butanone oxime; ethyl methyl ketoxime; ethyl methyl

ketone oxime (CAS 96-29-7)

Carcinogenic, Category 2.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance

information

No information available

11.2. Information on other hazards

Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Test Results Components **Species**

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 777 - 914 mg/l, 96 hours

Diacetone alcohol (CAS 123-42-2)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 420 mg/l, 96 hours

Ethylbenzene (CAS 100-41-4)

Aquatic

Acute

12.2. Persistence and

EC50 Crustacea Water flea (Daphnia magna) 1,37 - 4,4 mg/l, 48 hours Fish LC50 Atlantic silverside (Menidia menidia) 4,4 - 5,7 mg/l, 96 hours

No data is available on the degradability of any ingredients in the mixture.

degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

> -0.098 Diacetone alcohol Ethylbenzene 3,15

Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil Not established.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects None known.

12.8. Additional information

Estonia Dangerous substances in soil Data

Ethylbenzene (CAS 100-41-4) ETHYLBENZENE 0,1 mg/kg ETHYLBENZENE 5 mg/kg

ETHYLBENZENE 50 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Material name: Dykem® Cross Check™ Torque Seal® - Red

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Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1263 **14.2. UN proper shipping** Paint

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1263 **14.2. UN proper shipping** Paint

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1263 **14.2. UN proper shipping** Paint

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1263 **14.2. UN proper shipping** Paint

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 3L

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

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IMDG

14.1. UN number UN1263 **14.2. UN proper shipping** PAINT

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards

14.6. Special precautions Re

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments

ADN: ADR: IATA: IMDG: RID



SECTION 15: Regulatory information

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

EU regulations

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

EU Regulation 648/2004, Annex VII, Content Labeling for Detergents

Not applicable.

Not listed

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

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

Ethylbenzene (CAS 100-41-4)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)

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

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)

Other EU regulations

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

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) Ethylbenzene (CAS 100-41-4) Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product,

if there is the least risk of exposure.

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, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at

work, in accordance with Directive 2004/37/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

The classification for health and environmental hazards is derived by a combination of calculation

Chemicals in Bulk.

Not available.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

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

H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

methods and test data, if available,

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

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

Follow training instructions when handling this material.

Revision information Training information Disclaimer

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