PROBRANDS

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Dykem® Transparent Stain Aerosol - Steel Blue

of the mixture

Registration number -

Synonyms FORMULA CODE(S): * Steel Blue (8703A)

Part NumberSteel Blue (80000)Issue date13-January-2022

Version number 01

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

Identified usesStaining colorsUses advised againstNone known.1.3. Details of the supplier of the safety data sheet

Supplier

Company name ITW Performance Polymers

Address Bay 150

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

Telephone 353 (61) 771 500

353 (61) 471 285

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

Email mail@itwpp.com

Manufacturer

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

Olathe, KS 66061

Country (U.S.A.)

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 gases Category 1A H220 - Extremely flammable gas.
Aerosols Category 1 H229 - Pressurized container: May

burst if heated.

H222 - Extremely flammable

aerosol.

Health hazards

exposure

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

damage.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment,

long-term aquatic hazard

Category 2 H411 - Toxic to aquatic life with

long lasting effects.

Material name: Dykem® Transparent Stain Aerosol - Steel Blue Steel Blue (80000) Version #: 01 Issue date: 13-January-2022

Hazard summary

Contents under pressure. Heat may cause the containers to explode. Causes serious eye damage. May cause drowsiness or dizziness. Dangerous for the environment if discharged into watercourses. 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:

Basic Violet 1, Butanol Normal, Butyl acetate, Cellulose Nitrate, Diacetone alcohol, Ethanol, Isopropanol, Malachite Green Oxalate, Oxidized Castor Oil, Petroleum gases, liquefied, sweetened; Petroleum gas [complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic

impurities. It consists of hydrocarbons having, Propyl acetate, Shellac

Hazard pictograms



Signal word Danger

Hazard statements

Extremely flammable gas.

Pressurized container: May burst if heated. H229 Toxic to aquatic life with long lasting effects. H411

Extremely flammable aerosol. H222 Causes serious eye damage. H318 May cause drowsiness or dizziness. H336

Precautionary statements

Prevention

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

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251

Avoid breathing gas. P261 Avoid breathing vapours. P261

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

Avoid release to the environment. P273 Wear eye protection/face protection. P280

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340

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

and easy to do. Continue rinsing

Immediately call a POISON CENTRE/doctor. P310

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P377

In case of leakage, eliminate all ignition sources. P381

Collect spillage. P391

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

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

Supplemental label information

EUH066 - Repeated exposure may cause skin dryness or cracking.

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
Ethanol	30 - 40	64-17-5 200-578-6	-	603-002-00-5	
	Classification: Flam. Liq.	2;H225			
Butyl acetate	20 - 30	123-86-4 204-658-1	-	607-025-00-1	#
	Classification: Flam. Liq.	3;H226, STOT SE 3;	H336		

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Petroleum gases, liquefied, sweetened; Petroleum gas [com combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweeteni process to convert mercaptans or remove acidic impurities. It considuals to the considual of	ng or to	68476-86-8 270-705-8	-	649-203-00-1	
Classifica	ation: Press. Ga	s;H280, Muta. 1B;H34	40, Carc. 1A;H350		K,S,U
Butanol Normal	5 - 10	71-36-3 200-751-6	-	603-004-00-6	
Classifica		3;H226, Acute Tox. 4 ye Dam. 1;H318, ST0	I;H302;(ATE: 500 mg/kg), S DT SE 3;H335;H336	kin Irrit.	
Cellulose Nitrate	1 - 3	9004-70-0	-	603-037-00-6	
Classifica	ation: -	-			Т
Diacetone alcohol	1 - 3	123-42-2 204-626-7	-	603-016-00-1	
Classifica	ation: Eye Irrit. 2	;H319			
Isopropanol	1 - 3	67-63-0 200-661-7	01-2119457558-25-XXXX	603-117-00-0	
Classifica	ation: Flam. Liq.	2;H225, Eye Irrit. 2;H	1319, STOT SE 3;H336		
Propyl acetate	1 - 3	109-60-4 203-686-1	-	607-024-00-6	
Classifica	ation: Flam. Liq.	2;H225, Eye Irrit. 2;H	1319, STOT SE 3;H336		С
Shellac	1 - 3	9000-59-3 232-549-9	-	-	
Classifica	ation: -				
Basic Violet 1	0,1 - 1	8004-87-3 281-506-0	-	-	
Classifica	ation: Acute Tox Carc. 2;H3	. 4;H302;(ATE: 500 m 851, Aquatic Chronic	ng/kg), Skin Irrit. 2;H315, Ey 1;H410(M=10)	e Irrit. 2;H319,	
Malachite Green Oxalate	0,1 - 1	2437-29-8 219-441-7	-	602-096-00-5	
Classifica	ation: Acute Tox 1;H400, A	. 4;H302;(ATE: 500 m quatic Chronic 1;H41	ng/kg), Eye Dam. 1;H318, A 0	quatic Acute	
Oxidized Castor Oil	0,1 - 1	68187-84-8 269-128-4	-	-	
Classifica	ation: -				

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: 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.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8).

Note S: This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2). Note U: When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Composition comments

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information

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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact

Wash off with soap and water. 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. Continue rinsing. Get medical attention immediately.

Ingestion

In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

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

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

damage including blindness could result. Coughing.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).

media

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

Contents under pressure. Pressurised container may explode when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

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.

Special fire fighting procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

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. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Avoid breathing gas. 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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.

Small Spills: 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.

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

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Avoid breathing gas. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in tightly closed container. 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 OFL Ordinance (GwV) RGRI II no 184/2001

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	MAK	150 mg/m3	
		50 ppm	
	STEL	600 mg/m3	
		200 ppm	
Butyl acetate (CAS 123-86-4)	Ceiling	480 mg/m3	
		100 ppm	
	MAK	241 mg/m3	
		100 ppm	
Diacetone alcohol (CAS 123-42-2)	MAK	240 mg/m3	
		50 ppm	
Ethanol (CAS 64-17-5)	Ceiling	3800 mg/m3	
		2000 ppm	
	MAK	1900 mg/m3	
		1000 ppm	
Isopropanol (CAS 67-63-0)	MAK	500 mg/m3	
		200 ppm	
	STEL	2000 mg/m3	
		800 ppm	
Propyl acetate (CAS 109-60-4)	Ceiling	420 mg/m3	
		100 ppm	
	MAK	420 mg/m3	
		100 ppm	
Belgium. Exposure Limit Values			
Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	TWA	62 mg/m3	
		20 ppm	
Butyl acetate (CAS 123-86-4)	STEL	712 mg/m3	
		150 ppm	
	TWA	238 mg/m3	
		50 ppm	

Belgium. Exposure Limit Values Components	Туре	Value
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3
,		50 ppm
Ethanol (CAS 64-17-5)	TWA	1907 mg/m3
		1000 ppm
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
Propyl acetate (CAS 109-60-4)	STEL	1055 mg/m3
		250 ppm
	TWA	847 mg/m3
		200 ppm
Bulgaria. OELs. Regulation No 13	on protection of workers agai	inst risks of exposure to chemical agents at work
Components	Туре	Value
Butanol Normal (CAS 71-36-3)	STEL	150 mg/m3
	TWA	100 mg/m3
Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3
	TWA	710 mg/m3
Ethanol (CAS 64-17-5)	TWA	1000 mg/m3
Ethanol (CAS 64-17-5) Isopropanol (CAS 67-63-0)	TWA STEL	1000 mg/m3 1225 mg/m3
Isopropanol (CAS 67-63-0)	STEL TWA	1225 mg/m3
Isopropanol (CAS 67-63-0) Croatia. Dangerous Substance Exp	STEL TWA posure Limit Values in the Wo	1225 mg/m3 980 mg/m3 orkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS	STEL TWA posure Limit Values in the Wo Type	1225 mg/m3 980 mg/m3 orkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS	STEL TWA posure Limit Values in the Wo Type	1225 mg/m3 980 mg/m3 orkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS	STEL TWA posure Limit Values in the Wo Type STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS	STEL TWA posure Limit Values in the Wo Type STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS	STEL TWA posure Limit Values in the Wo Type STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS	STEL TWA posure Limit Values in the Wo Type STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 241 mg/m3 150 ppm 1900 ppm 1900 mg/m3 1000 ppm 1999 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC MAC MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 241 mg/m3 150 ppm 1900 ppm 1900 mg/m3 1000 ppm 1999 mg/m3 400 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC STEL MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm 1900 mg/m3 1000 ppm 999 mg/m3 400 ppm 1250 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5) Isopropanol (CAS 67-63-0)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 241 mg/m3 150 ppm 1900 ppm 1900 mg/m3 1000 ppm 1999 mg/m3 400 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC MAC MAC	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm 1900 mg/m3 1000 ppm 999 mg/m3 400 ppm 1250 mg/m3 500 ppm 1250 mg/m3 500 ppm 849 mg/m3
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5) Isopropanol (CAS 67-63-0)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL MAC STEL MAC STEL MAC STEL MAC MAC MAC MAC MAC MAC MAC MA	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm 1900 mg/m3 1000 ppm 999 mg/m3 400 ppm 1250 mg/m3 500 ppm 1250 mg/m3 500 ppm 849 mg/m3 200 ppm
Croatia. Dangerous Substance Exp Components Butanol Normal (CAS 71-36-3) Butyl acetate (CAS 123-86-4) Diacetone alcohol (CAS 123-42-2) Ethanol (CAS 64-17-5) Isopropanol (CAS 67-63-0)	STEL TWA posure Limit Values in the Wo Type STEL MAC STEL	1225 mg/m3 980 mg/m3 prkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value 154 mg/m3 50 ppm 241 mg/m3 50 ppm 723 mg/m3 150 ppm 241 mg/m3 50 ppm 362 mg/m3 75 ppm 1900 mg/m3 1000 ppm 999 mg/m3 400 ppm 1250 mg/m3 500 ppm 1250 mg/m3 500 ppm 849 mg/m3

	Туре	
Butanol Normal (CAS 71-36-3)	TWA	150 mg/m3
		50 ppm
Butyl acetate (CAS 123-86-4)	TWA	710 mg/m3
120-00-+)		150 ppm
sopropanol (CAS 67-63-0)	TWA	980 mg/m3
		400 ppm
Propyl acetate (CAS	TWA	840 mg/m3
109-60-4)		200 ppm
Crack Benublic OFL a Covernment D	264	200 pp
Czech Republic. OELs. Government D Components	Type	Value
Butanol Normal (CAS	Ceiling	600 mg/m3
71-36-3)	TWA	300 mg/m3
Butyl acetate (CAS	Ceiling	1200 mg/m3
123-86-4)	- Coming	y,
	TWA	950 mg/m3
Diacetone alcohol (CAS 123-42-2)	Ceiling	300 mg/m3
,	TWA	200 mg/m3
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
sopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
Propyl acetate (CAS 109-60-4)	Ceiling	1000 mg/m3
100 00 1)	TWA	800 mg/m3
Denmark. Exposure Limit Values		
Components	Туре	Value
Butanol Normal (CAS 71-36-3)	Ceiling	150 mg/m3
,		50 ppm
Butyl acetate (CAS	TLV	710 mg/m3
123-86-4)		450
Diagratura alaahal (CAC	T1.\/	150 ppm
Diacetone alcohol (CAS 123-42-2)	TLV	240 mg/m3
		50 ppm
Ethanol (CAS 64-17-5)	TLV	1900 mg/m3
		1000 ppm
sopropanol (CAS 67-63-0)	TLV	490 mg/m3
		200 ppm
Propyl acetate (CAS 109-60-4)	TLV	625 mg/m3
		150 ppm
Estonia. OELs. Occupational Exposur Components	e Limits of Hazardous Sub Type	stances (Regulation No. 105/2001, Annex), as amende Value
Butanol Normal (CAS 71-36-3)	STEL	90 mg/m3
		30 ppm
	TWA	45 mg/m3
		15 ppm

Components	Type	bstances (Regulation No. 105/2001, Annex), as amende Value
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
,		50 ppm
	TWA	120 mg/m3
		25 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
sopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
Finland. Workplace Exposure Limi	ts	
Components	Туре	Value
Butanol Normal (CAS	STEL	230 mg/m3
71-36-3)		75 ppm
	TWA	150 mg/m3
	IVVA	50 ppm
Butyl acetate (CAS	STEL	725 mg/m3
123-86-4)	SILL	723 mg/m3
		150 ppm
	TWA	240 mg/m3
		50 ppm
Diacetone alcohol (CAS 123-42-2)	STEL	360 mg/m3
		75 ppm
	TWA	240 mg/m3
		50 ppm
Ethanol (CAS 64-17-5)	STEL	2500 mg/m3
		1300 ppm
	TWA	1900 mg/m3
		1000 ppm
sopropanol (CAS 67-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
Propyl acetate (CAS 109-60-4)	STEL	850 mg/m3
10 <i>3-</i> 00 -4)		200 ppm
	TWA	420 mg/m3
		100 ppm
France. Threshold Limit Values (V Components	LEP) for Occupational Expos Type	ure to Chemicals in France, INRS ED 984 Value
Butanol Normal (CAS 71-36-3)	VLE	150 mg/m3
Regulatory status: Indicative	limit (VL)	
		50 ppm

Components	Туре	Value
Butyl acetate (CAS 123-86-4)	VLE	940 mg/m3
Regulatory status:	Indicative limit (VL)	
		200 ppm
Regulatory status:	Indicative limit (VL)	
	VME	710 mg/m3
Regulatory status:	Indicative limit (VL)	
		150 ppm
Regulatory status:	Indicative limit (VL)	
Diacetone alcohol (CAS 123-42-2)	VME	240 mg/m3
Regulatory status:	Indicative limit (VL)	
		50 ppm
Regulatory status:	Indicative limit (VL)	
Ethanol (CAS 64-17-5)	VLE	9500 mg/m3
Regulatory status:	Indicative limit (VL)	
	. ,	5000 ppm
Regulatory status:	Indicative limit (VL)	
0 ,	VME	1900 mg/m3
Regulatory status:	Indicative limit (VL)	Ç
g	,	1000 ppm
Regulatory status:	Indicative limit (VL)	
Isopropanol (CAS 67-63-0)	• •	980 mg/m3
Regulatory status:	Indicative limit (VL)	
rtogulatory otatao.	maioauvo mini (v 2)	400 ppm
Regulatory status:	Indicative limit (VL)	100 kkm
Propyl acetate (CAS	VME	840 mg/m3
109-60-4)	VIVIL	o t o mg/mo
Regulatory status:	Indicative limit (VL)	
		200 ppm
Regulatory status:	Indicative limit (VL)	

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

Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	TWA	310 mg/m3	
		100 ppm	
Butyl acetate (CAS 123-86-4)	TWA	480 mg/m3	
		100 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	96 mg/m3	
		20 ppm	
Ethanol (CAS 64-17-5)	TWA	380 mg/m3	
		200 ppm	
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Propyl acetate (CAS 109-60-4)	TWA	420 mg/m3	
		100 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wo	rkplace	
Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	AGW	310 mg/m3	

Germany. TRGS 900, Limit Values Components	in the Ambient Air at the Workplace Type	Value
		100 ppm
Butyl acetate (CAS 123-86-4)	AGW	300 mg/m3
		62 ppm
Diacetone alcohol (CAS 123-42-2)	AGW	96 mg/m3
F.I (0.1.0.0.1.4.7.5)	4.014	20 ppm
Ethanol (CAS 64-17-5)	AGW	380 mg/m3
Jacobson (CAS 67 62 0)	A C14/	200 ppm
Isopropanol (CAS 67-63-0)	AGW	500 mg/m3
		200 ppm
Greece. OELs (Decree No. 90/1999 Components), as amended) Type	Value
Butanol Normal (CAS	STEL	300 mg/m3
71-36-3)		-
		100 ppm
	TWA	300 mg/m3
		100 ppm
Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3
		200 ppm
	TWA	710 mg/m3
		150 ppm
Diacetone alcohol (CAS 123-42-2)	STEL	360 mg/m3
		75 ppm
	TWA	240 mg/m3
		50 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
	T14/4	500 ppm
	TWA	980 mg/m3
D	OTEL	400 ppm
Propyl acetate (CAS 109-60-4)	STEL	1050 mg/m3
		250 ppm
	TWA	840 mg/m3
		200 ppm
Hungary. OELs. Joint Decree on C Components	hemical Safety of Workplaces Type	Value
Butanol Normal (CAS 71-36-3)	STEL	90 mg/m3
	TWA	45 mg/m3
Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
	TWA	241 mg/m3
Ethanol (CAS 64-17-5)	STEL	3800 mg/m3
	TWA	1900 mg/m3
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
	TWA	500 mg/m3

omponents	Туре	Value	
	TWA	200 ppm	
opyl acetate (CAS 9-60-4)	STEL	150 ppm	
	TWA	100 ppm	
atvia. OELs. Occupational expos omponents	ure limit values of chemical s Type	ubstances in work environment Value	
utanol Normal (CAS 1-36-3)	TWA	10 mg/m3	
utyl acetate (CAS 23-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
thanol (CAS 64-17-5)	TWA	1000 mg/m3	
opropanol (CAS 67-63-0)	STEL	600 mg/m3	
	TWA	350 mg/m3	
ropyl acetate (CAS 09-60-4)	TWA	200 mg/m3	
ithuania. OELs. Limit Values for omponents	Chemical Substances, Gener Type	al Requirements Value	
utanol Normal (CAS	Ceiling	90 mg/m3	
1-36-3)	Coming .	30 ppm	
	TWA	45 mg/m3	
	IVVA	15 ppm	
utyl acetate (CAS	STEL	• •	
23-86-4)	SIEL	723 mg/m3 150 ppm	
	TWA	241 mg/m3	
	1 ***	50 ppm	
iacetone alcohol (CAS 23-42-2)	STEL	240 mg/m3	
,		50 ppm	
	TWA	120 mg/m3	
		25 ppm	
thanol (CAS 64-17-5)	STEL	1900 mg/m3	
,		1000 ppm	
	TWA	1000 mg/m3	
		500 ppm	
sopropanol (CAS 67-63-0)	STEL	600 mg/m3	
/		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
ropyl acetate (CAS	STEL	800 mg/m3	
09-60-4)		200 ppm	
	TWA	420 mg/m3	
		100 ppm	
uxembourg. Binding Occupation	al evnosure limit values (Ann	• •	
omponents	Type	Value	
Sutyl acetate (CAS	STEL	723 mg/m3	

Components	Туре	Value	
		150 ppm	
Netherlands. OELs (binding) Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3	
	TWA	260 mg/m3	
Norway. Administrative Norms for	Contaminants in the Workpla	ce	
Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	Ceiling	75 mg/m3	
		25 ppm	
Diacetone alcohol (CAS 123-42-2)	TLV	120 mg/m3	
		25 ppm	

950 mg/m3 500 ppm

245 mg/m3

420 mg/m3

100 ppm

100 ppm

Poland. 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

 TLV

 TLV

 TLV

Components	Туре	Value
Butanol Normal (CAS 71-36-3)	STEL	150 mg/m3
		0 ppm
	TWA	50 mg/m3
		0 ppm
Butyl acetate (CAS 123-86-4)	STEL	720 mg/m3
		0 ppm
	TWA	240 mg/m3
		0 ppm
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3
		0 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		0 ppm
Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
		0 ppm
	TWA	900 mg/m3
		0 ppm
Propyl acetate (CAS 109-60-4)	STEL	400 mg/m3
		0 ppm
	TWA	200 mg/m3
		0 ppm
Portugal. OELs. Decree-Law n. 29	90/2001 (Journal of the Republ	ic - 1 Series A, n.266)
Components	Туре	Value
Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
		150 ppm

Ethanol (CAS 64-17-5)

Propyl acetate (CAS

109-60-4)

Isopropanol (CAS 67-63-0)

TWA

310 mg/m3

100 ppm

Butanol Normal (CAS

71-36-3)

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

Components	Туре	Value	
Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3	
		1000 ppm	
	TWA	960 mg/m3	
		500 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
Propyl acetate (CAS 109-60-4)	STEL	800 mg/m3	
		200 ppm	
	TWA	400 mg/m3	
		100 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	Туре	Value	
Butanol Normal (CAS 71-36-3)	TWA	310 mg/m3	
		100 ppm	
Butyl acetate (CAS 123-86-4)	TWA	300 mg/m3	
		62 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	96 mg/m3	
		20 ppm	
Ethanol (CAS 64-17-5)	TWA	960 mg/m3	
		500 ppm	
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Spain. Occupational Exposure Lin	nits		
Components	Туре	Value	
Butanol Normal (CAS 71-36-3)	STEL	154 mg/m3	
		50 ppm	
	TWA	61 mg/m3	
		20 ppm	
Butyl acetate (CAS 123-86-4)	STEL	965 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3	
		50 ppm	
Ethanol (CAS 64-17-5)	STEL	1910 mg/m3	
		1000 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	

Spain. Occupational Exposure Lin	nits	
Components	Туре	Value
		400 ppm
	TWA	500 mg/m3
		200 ppm
Propyl acetate (CAS	STEL	1060 mg/m3
109-60-4)		250 ppm
	TWA	849 mg/m3
	IVVA	200 ppm
Sweden. OELs. Work Environment Components	: Authority (AV), Occupationa Type	I Exposure Limit Values (AFS 2015:7) Value
Butanol Normal (CAS 71-36-3)	Ceiling	90 mg/m3
		30 ppm
	TWA	45 mg/m3
		15 ppm
Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3
		150 ppm
	TWA	500 mg/m3
		100 ppm
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
		50 ppm
	TWA	120 mg/m3
		25 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
Switzerland. SUVA Grenzwerte am	Arbeitsplatz	
Components	Туре	Value
Butanol Normal (CAS 71-36-3)	STEL	310 mg/m3
		100 ppm
	TWA	310 mg/m3
		100 ppm
Butyl acetate (CAS 123-86-4)	STEL	720 mg/m3
		150 ppm
	TWA	240 mg/m3
Diacetone alcohol (CAS	STEL	50 ppm 192 mg/m3
123-42-2)		40 ppm
	TIAIA	40 ppm
	TWA	96 mg/m3
Fil. 1 (0.10 5.1.17 F)	0.7751	20 ppm
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm

Switzerland. SUVA Grenzy Components	Туре		V	alue
	TWA		90	60 mg/m3
				00 ppm
Isopropanol (CAS 67-63-0)	STEL			000 mg/m3
	0			00 ppm
	TWA			00 mg/m3
	1 **// (00 ppm
Propyl acetate (CAS	STEL			40 mg/m3
109-60-4)	OTEL			00 ppm
	TWA			20 mg/m3
	IVVA			-
			10	00 ppm
UK. EH40 Workplace Expo Components			V	alue
	Туре			
Butanol Normal (CAS 71-36-3)	STEL		15	54 mg/m3
,			50) ppm
Butyl acetate (CAS	STEL			66 mg/m3
123-86-4)				•
				00 ppm
	TWA			24 mg/m3
			1	50 ppm
Diacetone alcohol (CAS 123-42-2)	STEL		30	62 mg/m3
			7	5 ppm
	TWA		24	41 mg/m3
			50) ppm
Ethanol (CAS 64-17-5)	TWA		19	920 mg/m3
			10	000 ppm
Isopropanol (CAS 67-63-0)	STEL		1:	250 mg/m3
			50	00 ppm
	TWA		99	99 mg/m3
			4(00 ppm
Propyl acetate (CAS 109-60-4)	STEL		10	060 mg/m3
			25	50 ppm
	TWA		84	49 mg/m3
				00 ppm
			000/39/EC, 2006	6/15/EC, 2009/161/EU, 2017/164/EU
Components	Туре			alue
Butyl acetate (CAS 123-86-4)	STEL		72	23 mg/m3
			1	50 ppm
	TWA		24	41 mg/m3
			50) ppm
ogical limit values Croatia. BLV. Dangerous : Components	Substance Exposure L Value	imit Values at W Determinant	orkplace, Anne Specimen	xes 4 (as amended) Sampling Time
-		Acetone	Urine	*
Sonronanol (CAS 67-63-0)				
Isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Blood	*

Croatia. BLV. Dangerous Substance Exposure Limit Values	at Workplace, Annexes 4 (as amended)
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Components	Value	Determinant	Specimen	Sampling Time	
	0,86 umol/l	Acetone	Blood	*	
* - For sampling details, ple	ase see the source	e document.			
Germany. TRGS 903, BAT	List (Biological I	_imit Values)			
Components	Value	Determinant	Specimen	Sampling Time	
Butanol Normal (CAS 71-36-3)	2 mg/g	1-Butanol (nach Hydrolyse)	Creatinine in urine	*	
	10 mg/g	1-Butanol (nach Hydrolyse)	Creatinine in urine	*	
Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*	

Blood

25 mg/l

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

ACETON

Components	Value	Determinant	Specimen	Sampling Time
Butanol Normal (CAS 71-36-3)	3 µmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	15 µmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	2 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	10 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	25 μg/l	Acetone	Urine	*
	430 µmol/l	Acetone	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
Butanol Normal (CAS 71-36-3)	2 mg/g	N-Butyl Alcohol	Creatinine in urine	*
	10 mg/g	N-Butyl Alcohol	Creatinine in 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		
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*		

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

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

C	omponents	value	Determinant	Specimen	
	utanol Normal (CAS 1-36-3)	2 mg/g	n-Butanol	Creatinine in urine	
		10 mg/g	n-Butanol	Creatinine in urine	*
ls	opropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*
		25 mg/l	ACETON	Blood	*

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

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

Not available.

(DNELs)

Material name: Dykem® Transparent Stain Aerosol - Steel Blue Steel Blue (80000) Version #: 01 Issue date: 13-January-2022

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

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

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

Diacetone alcohol (CAS 123-42-2)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

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.

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Wear suitable protective clothing. - Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Hygiene measures 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.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. 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 Gas Aerosol **Form** Blue or Red. Colour Sweet. Solvent. Odour Not available. Melting point/freezing point

Boiling point or initial boiling

point and boiling range

76,67 - 125 °C (170 - 257 °F)

Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits 1,4 %

Flammability limit - lower

(%)

Flammability limit - upper 19 %

(%)

Flash point 11,7 °C (53,0 °F) **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. pН

Solubility(ies)

Negligible Solubility (water) Not available. Partition coefficient

(n-octanol/water)

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

Evaporation rate < 1 (BuAc = 1)
Explosive properties Not explosive.

Oxidising properties Not oxidising.

VOC 8703A Dk Blue/Steel Blue: 95,59%, 808 g/L

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidAvoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents. Alkali metals. Nitrates.

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 drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contactNo adverse effects due to skin contact are expected.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

damage including blindness could result. Coughing.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species		
		Test Results
Butyl acetate (CAS 123-86-4	4)	
<u>Acute</u>		
Inhalation		
LC50	Rat	> 21 mg/l, 4 Hours
Oral		
LD50	Rat	14000 mg/kg
Diacetone alcohol (CAS 123	3-42-2)	
<u>Acute</u>		
Oral		
LD50	Rat	3000 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Inhalation		
Vapour		
LC50	Rat	51 mg/l, 6 Hours
Isopropanol (CAS 67-63-0)		
<u>Acute</u>		
Inhalation		
LC50	-	51 mg/l, 8 Hours
Oral		
LD50	Rat	4,7 g/kg
Oxidized Castor Oil (CAS 68	3187-84-8)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours

Components Species Test Results

Oral

LD50 Rat > 2000 mg/kg

Propyl acetate (CAS 109-60-4)

Acute Dermal

LD50 Rabbit > 18000 mg/kg, 24 Hours

Inhalation

Vapour

LC50 Rat 32 mg/l, 4 Hours

Oral

LD50 Rat 8700 mg/kg

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Isopropanol (CAS 67-63-0)

Not classifiable as a human carcinogen. A4

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

Petroleum gases, liquefied, sweetened; Petroleum gas [complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having (CAS 68476-86-8)

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

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not likely, due to the form of the product.

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 Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are

not met for hazardous to the aquatic environment, acute hazard.

Components Species Test Results

Basic Violet 1 (CAS 8004-87-3)

Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) 0,047 mg/l, 96 hours

Butanol Normal (CAS 71-36-3)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 1897 - 2072 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) 100 - 500 mg/l, 96 hours

Material name: Dykem® Transparent Stain Aerosol - Steel Blue Steel Blue (80000) Version #: 01 Issue date: 13-January-2022 Components Species Test Results

Butyl acetate (CAS 123-86-4)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 17 - 19 mg/l, 96 hours

Diacetone alcohol (CAS 123-42-2)

Aquatic

Acute

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

Ethanol (CAS 64-17-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 7,7 - 11,2 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 42 mg/l, 4 days

(Oncorhynchus mykiss)

Isopropanol (CAS 67-63-0)

Aquatic Acute

T:_b

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

Malachite Green Oxalate (CAS 2437-29-8)

Aquatic

Acute

Fish LC50 Channel catfish (Ictalurus punctatus) 0,14 mg/l, 96 hours

Propyl acetate (CAS 109-60-4)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 56 - 64 mg/l, 96 hours

12.2. Persistence and

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)

 Butanol Normal
 0,88

 Butyl acetate
 1,78

 Diacetone alcohol
 -0,098

 Ethanol
 -0,31

 Isopropanol
 0,05

 Propyl acetate
 1,24

Bioconcentration factor (BCF) Not available.

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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. Do not re-use empty containers.

EU waste codeThe 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. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Hazard No. (ADR) Not available.

Tunnel restriction code D

14.4. Packing group Not available.

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 UN1950

14.2. UN proper shipping AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

14.4. Packing group Not available.

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 UN1950

14.2. UN proper shipping AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

14.4. Packing group Not available.

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 UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No. **ERG Code** 10L

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No. EmS F-D, S-U

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

for user

14.7. Maritime transport in bulk

Not applicable.

according to IMO instruments



General information IMDG Regulated Marine Pollutant.

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 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

Not listed

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

Petroleum gases, liquefied, sweetened; Petroleum gas [complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having (CAS 68476-86-8)

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

Petroleum gases, liquefied, sweetened; Petroleum gas [complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having (CAS 68476-86-8)

Other EU regulations

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

Butanol Normal (CAS 71-36-3)

Butyl acetate (CAS 123-86-4) Cellulose Nitrate (CAS 9004-70-0)

Ethanol (CAS 64-17-5) Isopropanol (CAS 67-63-0)

Malachite Green Oxalate (CAS 2437-29-8)

Petroleum gases, liquefied, sweetened; Petroleum gas [complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having (CAS 68476-86-8)

Propyl acetate (CAS 109-60-4)

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 Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, 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.

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

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

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

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

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