

Dykem® Layout Fluid - Steel Blue (Bulk)

ITW Pro Brands. -KS

Part Number: 80200, 80300, 80400, 80600, 80700

Version No: 2.11

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **27/02/2024**Print Date: **27/02/2024**S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	Dykem® Layout Fluid - Steel Blue (Bulk)
Proper shipping name Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	For Industrial Use Only Use according to manufacturer's directions.
	Ose according to mandracturers directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ITW Pro BrandsKS
Address	805 E. Old 56 Highway Olathe, KS 66061 United States
Telephone	1-800-433-9536
Fax	Not Available
Website	www.itwprobrands.com
Email	Customerservice@itwprobrands.com

Emergency phone number

Association / Organisation Dykem/Dymon/Scrubs = Call InfoTrac For_LPS & Other Brands = Call Chemtrec	
Emergency telephone numbers	1-800-535-5053 (Infotrac Inside US) 1-800-424-9300 (Chemtrec Inside US)
Other emergency telephone numbers	1-352-323-3500 (Infotrac Ouside US) +001 703-527-3887 (Chemtrec Outside US)

SECTION 2 Hazard(s) identification

Clas

Classification of the substance or mixture

	Flammable Liquids Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Narcotic
	Effects) Category 3, Reproductive Toxicity Category 2

Label elements

Hazard pictogram(s)









Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use
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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P202	Do not handle until all safety precautions have been read and understood.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P403+P235	P403+P235 Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64-17-5*	30-60	Ethanol*
123-86-4*	15-40	n-butyl acetate
9004-70-0*	3-7	nitrocellulose
67-63-0*	3-7	<u>Isopropanol*</u>
109-60-4	3-7	n-propyl acetate
71-36-3*	1-5	<u>n-butanol</u>
2437-29-8*	<0.2	C.I. Basic Green 4 (oxalate)
25587-80-8	1-3	polyamide 11

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures		
Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	

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Ingestion

- Immediately give a glass of water.
 - First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
 - If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- Alcohol stable foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

▶ Alert Fire Brigade and tell them location and nature of hazard.

May be violently or explosively reactive.

- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water course.
- Consider evacuation (or protect in place).

Fire Fighting

- Fight fire from a safe distance, with adequate cover.
- ▶ If safe, switch off electrical equipment until vapour fire hazard removed.
- Use water delivered as a fine spray to control the fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- ▶ Do not approach containers suspected to be hot.
- ▶ Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

Fire/Explosion Hazard

- Liquid and vapour are highly flammable.
- Severe fire hazard when exposed to heat, flame and/or oxidisers.
- ► Vapour may travel a considerable distance to source of ignition.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
 On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
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► Clear area of personnel and move upwind.

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- Consider evacuation (or protect in place).
- No smoking, naked lights or ignition sources.
- Major Spills Increase ventilation.
 - Stop leak if safe to do so.
 - ▶ Water spray or fog may be used to disperse /absorb vapour.
 - Contain spill with sand, earth or vermiculite.
 - Use only spark-free shovels and explosion proof equipment.
 - Collect recoverable product into labelled containers for recycling.
 - Absorb remaining product with sand, earth or vermiculite.

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- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- ▶ DO NOT enter confined spaces until atmosphere has been checked
- ▶ Avoid smoking, naked lights, heat or ignition sources
- ► When handling, **DO NOT** eat, drink or smoke
- Vapour may ignite on pumping or pouring due to static electricity.
- Safe handling
- Earth and secure metal containers when dispensing or pouring product.
- Use spark-free tools when handling.

DO NOT use plastic buckets

- Avoid contact with incompatible materials.
- ▶ Keep containers securely sealed.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- ▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

.

- Store in original containers in approved flame-proof area.
- ▶ No smoking, naked lights, heat or ignition sources.
- ▶ DO NOT store in pits, depression, basement or areas where vapours may be trapped.
- Other information
- Keep containers securely sealed.
 Store away from incompatible materials in a cool, dry well ventilated area.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with oxidising agents.















- X Must not be stored together
- 0 May be stored together with specific preventions
- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

INOREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	n-butyl acetate	n-Butyl-acetate	150 ppm / 710 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	n-butyl acetate	n-Butyl acetate	150 ppm / 710 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	nitrocellulose	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	nitrocellulose	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	nitrocellulose	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available

polyamide 11

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Appendix D

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	nitrocellulose	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	nitrocellulose	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Isopropanol*	Isopropyl alcohol	400 ppm / 980 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Isopropanol*	Isopropyl alcohol	400 ppm / 980 mg/m3	1225 mg/m3 / 500 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Ethanol*	Ethyl alcohol (Ethanol)	1000 ppm / 1900 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Ethanol*	Ethyl alcohol	1000 ppm / 1900 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	n-propyl acetate	n-Propyl acetate	200 ppm / 840 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	n-propyl acetate	n-Propyl acetate	200 ppm / 840 mg/m3	1050 mg/m3 / 250 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	n-butanol	n-Butyl alcohol	100 ppm / 300 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 150 mg/m3	[skin]
US OSHA Permissible Exposure Limits (PELs) Table Z-1	polyamide 11	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	polyamide 11	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	polyamide 11	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	polyamide 11	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended	polyamide 11	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See

Emergency Limits

Exposure Limits (RELs)

Ingredient	TEEL-1	TEEL-2	TEEL-3
n-butyl acetate	Not Available	Not Available	Not Available
Isopropanol*	400 ppm	2000* ppm	12000** ppm
Ethanol*	Not Available	Not Available	15000* ppm
n-propyl acetate	250 ppm	1,300 ppm	8000* ppm
n-butanol	60 ppm	800 ppm	8000** ppm

Particulates not otherwise regulated

Ingredient	Original IDLH	Revised IDLH
n-butyl acetate	1,700 ppm	Not Available
nitrocellulose	Not Available	Not Available
Isopropanol*	2,000 ppm	Not Available
Ethanol*	3,300 ppm	Not Available
n-propyl acetate	1,700 ppm	Not Available
n-butanol	1,400 ppm	Not Available
polyamide 11	Not Available	Not Available
C.I. Basic Green 4 (oxalate)	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
C.I. Basic Green 4 (oxalate)	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Appropriate engineering

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

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Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

- · Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance.
- · Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.
- · Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered.. The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)

Individual protection measures, such as personal protective equipment









Eye and face protection

- ► Safety glasses with side shields.
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection See Hand protection below

Hands/feet protection

- ▶ Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

Body protection

See Other protection below

Other protection

- Overalls.PVC Apron.
- PVC protective suit may be required if exposure severe.
- ► Eyewash unit.
- Ensure there is ready access to a safety shower.

Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Blue		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available

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Odour threshold	Not Available	Auto-ignition temperature (°C)	380
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	64.7	Molecular weight (g/mol)	Not Available
Flash point (°C)	9.7	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC %	94%

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on	toxicological	effects
millorination or	toxicological	CITCULS

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

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TOXICITY	IRRITATION
Not Available	Not Available

n-butyl acetate

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 3200 mg/kg* ^[2]	Eye (human): 300 mg * [PPG]
Inhalation (Human) TCLo: 200 ppm ^[2]	Eye (rabbit): 20 mg (open)-SEVERE
Inhalation (Human) TCLo: 200 ppm/4h ^[2]	Eye (rabbit): 20 mg/24h - moderate
Inhalation(Rat) LC50: 2000 ppm/4H ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
Inhalation(Rat) LC50: 390 ppm/4h ^[2]	Skin (rabbit): 500 mg/24h-moderate
Intraperitoneal (Guinea pig) LD: 1500 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
Intraperitoneal (Mouse) LD50: 1230 mg/kg ^[2]	
Oral (Guinea) LD50; 4700 mg/kg ^[2]	

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	Oral (Rabbit) LD50: 3200 mg/kg ^[2]					
	Oral (Rat) LD50: 10768 mg/kg ^[2]					
	Oral (Rat) LD50: 13100 mg/kg ^[2]					
	Gran (rat) 2550. 10150 mg/kg					
	TOXICITY			IRF	RITATION	
nitrocellulose	Oral (Rat) LD50: >5000 mg/kg ^[2]			No	t Available	
	TOXICITY				IRRITATION	
Isopropanol*	Dermal (rabbit) LD50: 12800 mg/kg ^[2]				Not Available	
	Inhalation(Mouse) LC50; 53 mg/L4h ^[2]					
	Oral (Mouse) LD50; 3600 mg/kg ^[2]					
	TOVICITY	IDDI	TATION			
	TOXICITY Description of the second of the s		TATION	([1]	
Ethanol*	Dermal (rabbit) LD50: 17100 mg/kg ^[1] Inhalation(Rat) LC50: 64000 ppm4h ^[2]		adverse effect observerse effe			
	Oral (Rat) LD50: 7060 mg/kg ^[2]	SKIII	. no adverse effect ob:	servea (not ii	maung)t	
	Ofal (Kat) ED50. 7000 Hig/kgc 7					
	TOXICITY	IF	RRITATION			
	dermal (guinea pig) LD50: >8880 mg/kg ^[2]		ye (rabbit): 500 mg/24	4h - mild		
n-propyl acetate	Inhalation(Rat) LC50: ~32 mg/l4h ^[1]		Eye: adverse effect observed (irritati		ng)[1]	
	Oral (Rabbit) LD50; 6640 mg/kg ^[2]		Skin (rabbit): 500 mg (open)- mild			
	Skin: no adverse		Skin: no adverse effect	observed (no	ot irritating) ^[1]	
	TOXICITY	IRR	ITATION			
	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Eye	(human): 50 ppm - irr	ritant		
	Inhalation (Human) TCLo: 25 ppm ^[2]	Eye	(rabbit): 1.6 mg-SEVI	ERE		
n-butanol	Inhalation (Human) TCLo: 86000 mg/m3 ^[2] Eye (ra		(rabbit): 24 mg/24h-S	SEVERE		
	Inhalation(Rat) LC50: 8000 ppm/4h ^[2] Eye: ad		: adverse effect obser	ved (irreversi	ble damage) ^[1]	
	Oral (Rat) LD50: 790 mg/kg ^[2]		Skin (rabbit): 405 mg/24h-moderate			
	Skin: adverse effect observed (irritatin			₃₎ [1]		
polyamide 11	TOXICITY		IRRITATION			
	Not Available		Not Available			
	TOXICITY		IRRITATION			
C.I. Basic Green 4 (oxalate)	Oral (Mouse) LD50; 50 mg/kg ^[2]		Eye (rabbit): 76 mg/kg SEVER		RE	
om zaolo orosii i (onalalo)	Oral (Rat) LD50: 275 mg/kg ^[2]		7. (20.7) 2. 3. 3. 2			
Legend:	Value obtained from Europe ECHA Registered Sub- specified data extracted from RTECS - Register of Tox			ned from mar	nufacturer's SDS. Unless otherwise	
	, ,					
Acute Toxicity	×		Carcinogenicity	X		
Skin Irritation/Corrosion	×		Reproductivity	~		
Serious Eye Damage/Irritation	~	STOT	- Single Exposure	*		
Respiratory or Skin sensitisation	×	STOT - R	epeated Exposure	×		
Mutaganiaitu	×		Aspiration Hazard	X		
Mutagenicity		· ·	Aopiration nazara			

SECTION 12 Ecological information

Toxicity

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Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

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	Endpoint	Test Duration (hr)	Species			Value		Source
	EC50	48h	Crustacea			32mg/l		1
n-butyl acetate	EC50	72h	Algae or other aquatic plants			246mg/l		2
	EC50(ECx)	96h	Fish			18mg/l		2
	LC50	96h	Fish			17-19m	ıg/l	4
	Endpoint	Test Duration (hr)	Species			Value		Source
nitrocellulose	EC50	96h	Algae or other a	aquatic plants		138-2400mg	g/l	4
	EC50(ECx)	96h	Algae or other a	aquatic plants		138-2400mg	g/l	4
	Endpoint	Test Duration (hr)	Species			Value		Source
	EC50	48h	Crustacea			7550mg	/I	4
	EC50	96h		er aquatic plants		>1000m		1
Isopropanol*	EC50(ECx)	24h	-	er aquatic plants		0.011mg		4
	EC50	72h	Algae or othe	er aquatic plants		>1000m	g/l	1
	LC50	96h	Fish			>1400m	g/l	4
		'	'					
	Endpoint	Test Duration (hr)	Species			Value		Source
	EC50	48h	Crustacea			2mg/l		4
	EC50	96h		Algae or other aquatic plants		<0.001mg	ı/L	4
Ethanol*	EC50(ECx)	96h		aquatic plants		<0.001mg/L		4
	EC50	72h		aquatic plants		275mg/l		2
	LC50	96h	Fish	· · ·			42mg/l	
		<u> </u>	<u> </u>					
	Endpoint	Test Duration (hr)	Species			Value	Source	:e
	EC50	48h	Crustacea			91.5mg/l	2	-
n-propyl acetate	EC50	72h	Algae or other	aquatic plants		672mg/l	2	
	NOEC(ECx)	48h	Crustacea			32.1mg/l	2	
	LC50	96h	Fish	Fish 60		60mg/l	Not A	vailable
		<u> </u>	<u> </u>				'	
	Endpoint	Test Duration (hr)	Species			Value		Source
	EC50	48h	Crustacea			>500mg/l		1
	EC50	96h	Algae or othe	Algae or other aquatic plants		225mg/l		2
n-butanol	EC50	72h		r aquatic plants		>500mg/l		1
	NOEC(ECx)	504h	Crustacea			4.1mg/l		2
	LC50	96h	Fish			100-500mg/l		4
		<u></u>						
	Endpoint	Test Duration (hr)	Specie	06	Value		Source	
polyamide 11	Not Available	Not Available		/ailable	Not Availabl	Δ	Not Avai	ahle
	NOT Available	Not Available	Not Av	valiable	Not Available	<u> </u>	NOT AVAI	abie
	Endpoint	Test Duration (hr)		Species		lue	So 4	urce
I.I. Basic Green 4 (oxalate)	EC50	48h				0.29mg/l		
	LC50 EC50(ECx)	96h 72h				0.14mg/l 4 0.22mg/l 4		
				Crustacea			4	

Harmful to aquatic organisms.

DO NOT discharge into sewer or waterways.

- Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
n-butyl acetate	LOW	LOW
Isopropanol*	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
Ethanol*	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
n-propyl acetate	LOW	LOW

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan)

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Ingredient	Persistence: Water/Soil	Persistence: Air	
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)	

Bioaccumulative potential

Ingredient	Bioaccumulation
n-butyl acetate	LOW (BCF = 14)
Isopropanol*	LOW (LogKOW = 0.05)
Ethanol*	LOW (LogKOW = -0.31)
n-propyl acetate	LOW (BCF = 5.1)
n-butanol	LOW (BCF = 0.64)

Mobility in soil

Ingredient	Mobility
n-butyl acetate	LOW (KOC = 20.86)
Isopropanol*	HIGH (KOC = 1.06)
Ethanol*	HIGH (KOC = 1)
n-propyl acetate	LOW (KOC = 11.31)
n-butanol	MEDIUM (KOC = 2.443)

SECTION 13 Disposal considerations

Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- Product / Packaging disposal
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required



Marine Pollutant

NO

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

14.1. UN number or ID number	1263		
14.2. UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	Not Applicable	
14.4. Packing group	П		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard Label Special provisions	3 149, 367, 383, B52, B131, IB2, T4, TP1, TP8, TP28	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263
14.2. UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

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14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	3 Not Applicable 3L	
14.4. Packing group	II		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions		A3 A72 A192
	Cargo Only Packing Instructions		364
	Cargo Only Maximum Qty / Pack		60 L
	Passenger and Cargo Packing Instructions		353
	Passenger and Cargo Maximum Qty / Pack		5 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y341
	Passenger and Cargo Limited Ma	ximum Qty / Pack	1 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263		
14.2. UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	3 I Not Applicable	
14.4. Packing group	II .		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user		E , S-E 33 367 L	

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
n-butyl acetate	Not Available
nitrocellulose	Not Available
Isopropanol*	Not Available
Ethanol*	Not Available
n-propyl acetate	Not Available
n-butanol	Not Available
polyamide 11	Not Available
C.I. Basic Green 4 (oxalate)	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
n-butyl acetate	Not Available
nitrocellulose	Not Available
Isopropanol*	Not Available
Ethanol*	Not Available
n-propyl acetate	Not Available
n-butanol	Not Available
polyamide 11	Not Available
C.I. Basic Green 4 (oxalate)	Not Available

SECTION 15 Regulatory information

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

n-butyl acetate is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US CWA (Clean Water Act) - List of Hazardous Substances

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

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US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

nitrocellulose is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - Massachusetts - Right To Know Listed Chemicals

US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Isopropanol* is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

Ethanol* is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

n-propyl acetate is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

n-butanol is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

 ${\tt US\ DOE\ Temporary\ Emergency\ Exposure\ Limits\ (TEELs)}$

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

polyamide 11 is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

C.I. Basic Green 4 (oxalate) is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements

US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	
Gas under pressure	No
Explosive	No
Self-heating Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No

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Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	Yes
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
n-butyl acetate	5000	2270
n-butanol	5000	2270

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

CAS No	%[weight]	Name
67-63-0*	3-7	Isopropanol*
71-36-3*	1-5	n-butanol
This information must be included in all SDSs that are copied and distributed for this material		

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including 4,4'-bis(dimethylamino)benzophenone, C.I. Basic Violet 3 chloride, which are known to the State of California to cause cancer. For more information, go to $\underline{www.P65Warnings.ca.gov}$

Additional State Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (n-butyl acetate; nitrocellulose; Isopropanol*; Ethanol*; n-propyl acetate; n-butanol; polyamide 11; C.I. Basic Green 4 (oxalate))
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (nitrocellulose; polyamide 11)
Japan - ENCS	No (C.I. Basic Green 4 (oxalate))
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (polyamide 11; C.I. Basic Green 4 (oxalate))
Vietnam - NCI	Yes
Russia - FBEPH	No (polyamide 11)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

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Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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