

Poly 501 B Satin/Matte ICP Building Solutions Group

Version No: 12.15.10.9

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

Issue Date: 03/30/2021 Print Date: 08/20/2021 S.GHS.USA.EN

SECTION 1 Identification

Р	ro	du	ct	Identifier
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Product name	Poly 501 B Satin/Matte	
Synonyms	Not Available	
Proper shipping name	Resin Solution, flammable (contains n-butyl acetate)	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses Specialty flooring curative

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

Registered company name	ICP Building Solutions Group	
Address	4565 W Watkins Street Phoenix AZ 85043 United States	
Telephone	623-435-2277	
Fax	Not Available	
Website	www.icpgroup.com	
Email	sds@icpgroup.com	

Emergency phone number

Association / Organisation	ChemTel	
Emergency telephone numbers	1-800-255-3924	
Other emergency telephone numbers	1-813-248-0585	

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2A, Sensitisation (Respiratory) Category 1, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3

Label elements

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

• •	
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

Version No: 12.15.10.9 Page 2 of 15 Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statement(s) Response

	•
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P310	Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statement(s) Storage

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

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
822-06-0	<1	hexamethylene diisocyanate
28182-81-2	60-75	hexamethylene diisocyanate polymer
666723-27-9	5-15	N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked
9046-01-9	1-5	tridecanol ethoxylated, phosphated
53880-05-0	5-10	isophorone diisocyanate homopolymer
123-86-4	1-5	n-butyl acetate
34590-94-8	1-5	dipropylene glycol monomethyl ether

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

► Transport to hospital, or doctor, without delay.

SECTION 4 First-aid measures

Description of first aid measures		
Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. 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 or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. 	

Version No: 12.15.10.9 Page 3 of 15 Issue Date: 03/30/2021
Polity 504 P. Codin (Markton)
Print Date: 08/20/2021

Poly 501 B Satin/Matte

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. for simple esters:

BASIC TREATMENT

- Festablish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.

- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For sub-chronic and chronic exposures to isocyanates:

- This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts.
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- ► Some cross-sensitivity occurs between different isocyanates.
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- ▶ Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- ▶ There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity.

[Karol & Jin. Frontiers in Molecular Toxicology. pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

SECTION 5 Fire-fighting measures

Extinguishing media

- Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid foam.
- Presents additional hazard when fire fighting in a confined space.
- Cooling with flooding quantities of water reduces this risk.
- Alcohol stable foam.
- Dry chemical powder
- ► BCF (where regulations permit).

Version No: 12.15.10.9 Page 4 of 15 Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

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. Fire Fighting May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Combustion products include: carbon dioxide (CO2) carbon monoxide (CO) isocyanates Fire/Explosion Hazard hydrogen cyanide and minor amounts of nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. When heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the point of rupture. Release of toxic and/or flammable isocyanate vapours may then occur Burns with acrid black smoke

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 un

Minor Spills	Environmental hazard - contain spillage. Remove all ignition sources. Clean up all spills immediately.
Major Spills	 Avoid breathing vapours and contact with skin and eyes. Environmental hazard - contain spillage. Liquid Isocyanates and high isocyanate vapour concentrations will penetrate seals on self contained breathing apparatus - SCBA should be used inside encapsulating suit where this exposure may occur. For isocyanate spills of less than 40 litres (2 m2): Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible. Notify supervision and others as necessary. Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots). Avoid contamination with water, alkalies and detergent solutions. Material reacts with water and generates gas, pressurises containers with even drum rupture resulting. DO NOT reseal container if contamination is suspected. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive.

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

SECTION 7 Handling and storage

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 overexposure occurs. Use in a well-ventilated area. DO NOT allow clothing wet with material to stay in contact with skin
Other information	Consider storage under inert gas. Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. for commercial quantities of isocyanates: Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding. Pre-polymers need not be segregated.

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.

Version No: **12.15.10.9** Page **5** of **15** Issue Date: **03/30/2021**

Poly 501 B Satin/Matte

Print Date: 08/20/2021

- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt.
- ▶ Esters react with acids to liberate heat along with alcohols and acids.
- ▶ Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products.
- ▶ Heat is also generated by the interaction of esters with caustic solutions.
- -Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water. Upon treatment with an alcohol, an isocyanate forms a urethane linkage.
 - ▶ A range of exothermic decomposition energies for isocyanates is given as 20-30 kJ/mol.
 - The relationship between energy of decomposition and processing hazards has been the subject of discussion; it is suggested that values of energy released per unit of mass, rather than on a molar basis (J/g) be used in the assessment.
 - For example, in "open vessel processes" (with man-hole size openings, in an industrial setting), substances with exothermic decomposition energies below 500 J/g are unlikely to present a danger, whilst those in "closed vessel processes" (opening is a safety valve or bursting disk) present some danger where the decomposition energy exceeds 150 J/g.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Storage incompatibility

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	hexamethylene diisocyanate	Hexamethylene diisocyanate	0.005 ppm / 0.035 mg/m3	Not Available	0.020 (10-minute) ppm / 0.140 (10-minute) mg/m3	Not Available
US ACGIH Threshold Limit Values (TLV)	hexamethylene diisocyanate	Hexamethylene diisocyanate	0.005 ppm	Not Available	Not Available	BEI
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 ACGIH Threshold Limit Values (TLV)	n-butyl acetate	Butyl acetates, all isomers	50 ppm	150 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	dipropylene glycol monomethyl ether	Dipropylene glycol methyl ether	100 ppm / 600 mg/m3	Not Available	Not Available	Skin designation
US NIOSH Recommended Exposure Limits (RELs)	dipropylene glycol monomethyl ether	Dipropylene glycol methyl ether	100 ppm / 600 mg/m3	900 mg/m3 / 150 ppm	Not Available	[skin]

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
hexamethylene diisocyanate	0.018 ppm	0.2 ppm	3 ppm
hexamethylene diisocyanate polymer	7.8 mg/m3	86 mg/m3	510 mg/m3
n-butyl acetate	Not Available	Not Available	Not Available
dipropylene glycol monomethyl ether	150 ppm	1700* ppm	9900** ppm

Ingredient	Original IDLH	Revised IDLH
hexamethylene diisocyanate	Not Available	Not Available
hexamethylene diisocyanate polymer	Not Available	Not Available
N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked	Not Available	Not Available
tridecanol ethoxylated, phosphated	Not Available	Not Available
isophorone diisocyanate homopolymer	Not Available	Not Available
n-butyl acetate	1,700 ppm	Not Available
dipropylene glycol monomethyl ether	600 ppm	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
hexamethylene diisocyanate polymer	Е	≤ 0.1 ppm
N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked	Е	≤ 0.1 ppm

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.

Version No: **12.15.10.9** Page 6 of **15** Issue Date: **03/30/2021**Print Date: **08/20/2021**Print Date: **08/20/2021**

Poly 501 B Satin/Matte

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
isophorone diisocyanate homopolymer	D	> 0.1 to ≤ 1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker heal	cess is an occupational exposure band (OEB), which corresponds to a

Exposure controls

Appropriate engineering 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.

- ▶ All processes in which isocyanates are used should be enclosed wherever possible.
- Total enclosure, accompanied by good general ventilation, should be used to keep atmospheric concentrations below the relevant exposure standards.
- ▶ If total enclosure of the process is not feasible, local exhaust ventilation may be necessary.

Personal protection











Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

See Hand protection below

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

For esters

Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials.

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

- ▶ Do NOT wear natural rubber (latex gloves).
- ▶ Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
- Protective gloves and overalls should be worn as specified in the appropriate national standard.
- Contaminated garments should be removed promptly and should not be re-used until they have been decontaminated.
- DO NOT use skin cream unless necessary and then use only minimum amount
- Isocyanate vapour may be absorbed into skin cream and this increases hazard.

Body protection

See Other protection below

All employees working with isocyanates must be informed of the hazards from exposure to the contaminant and the precautions necessary to prevent damage to their health. They should be made aware of the need to carry out their work so that as little contamination as possible is produced, and of the importance of the proper use of all safeguards against exposure to themselves and their fellow workers. Adequate training, both in the proper execution of the task and in the use of all associated engineering controls, as well as of any personal protective equipment, is essential.

Other protection

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- ▶ Non sparking safety or conductive footwear should be considered.

Respiratory protection

Full face respirator with supplied air.

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

For spraying or operations which might generate aerosols:

Full face respirator with supplied air.

- In certain circumstances, personal protection of the individual employee is necessary. Personal protective devices should be regarded as being supplementary to substitution and engineering control and should not be used in preference to them as they do nothing to eliminate the hazard.
- However, in some situations, minimising exposure to isocyanates by enclosure and ventilation is not possible, and occupational exposure standards may be exceeded, particularly during on-site mixing of paints, spray-painting, foaming and maintenance of machine and ventilation systems. In these situations, air-line respirators or self-contained breathing apparatus complying with the appropriate nationals standard must be used.
- Organic vapour respirators with particulate pre- filters and powered, air-purifying respirators are NOT suitable.
- Personal protective equipment must be appropriately selected, individually fitted and workers trained in their correct use and maintenance. Personal protective equipment must be regularly checked and maintained to ensure that the worker is being protected.
- Air- line respirators or self-contained breathing apparatus complying with the appropriate national standard should be used during the clean-up of spills and the repair or clean-up of contaminated equipment and similar situations which cause emergency exposures to hazardous atmospheric concentrations of isocyanate.

Version No: 12.15.10.9 Page **7** of **15** Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

SECTION 9 Physical and chemical properties

Information on basic physical	nformation on basic physical and chemical properties				
Appearance	Moisture sensitive.				
Physical state	Liquid	Relative density (Water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Available	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available		
Flash point (°C)	40	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	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	Immiscible	pH as a solution (%)	Not Available		
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available		

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 ef	ffects
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. Possible neurological symptoms arising from isocyanate exposure include headache, insomnia, euphoria, ataxia, anxiety neurosis, depression and paranoia. Gastrointestinal disturbances are characterised by nausea and vomiting.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Skin Contact	The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Eye	This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

Version No: 12.15.10.9 Page **8** of **15** Issue Date: 03/30/2021

Poly 501 B Satin/Matte

Print Date: 08/20/2021

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. This product contains a polymer with a functional group considered to be of high concern. Isothiocyanates may cause hypersensitivity of the skin and airways.

The polymer this material contains and its functional group is of low concern. Blocked isocyanates have a group attached to them to reduce their reactivity compared to the unblocked version which is much more reactive.

Persons with a history of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the handling of isocyanates

The chemistry of reaction of isocyanates, as evidenced by MDI, in biological milieu is such that in the event of a true exposure of small MDI doses to the mouth, reactions will commence at once with biological macromolecules in the buccal region and will continue along the digestive tract prior to reaching the stomach. Reaction products will be a variety of polyureas and macromolecular conjugates with for example mucus, proteins and cell components.

Animal testing shows that polymeric MDI can damage the nasal cavities and lungs, causing inflammation.and increased cell growth.

CONTAINS free organic isocyanate. Mixing and application requires special precautions and use of personal protective gear [APMF]

	TOXICITY	IRRITATION
Poly 501 B Satin/Matte	Not Available	Not Available
	TOXICITY	IRRITATION
	dermal (rat) LD50: >525 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]
hexamethylene diisocyanate	Inhalation(Rat) LC50; 0.124 mg/L4h ^[1]	Skin: adverse effect observed (corrosive) ^[1]
	Oral(Mouse) LD50; 350 mg/kg ^[2]	Skin: adverse effect observed (irritating)[1]
	TOXICITY	IRRITATION
hexamethylene diisocyanate	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Skin (rabbit): 500 mg - moderate
polymer	Inhalation(Rat) LC50; 0.052-0.5 mg/L4h ^[1]	
	Oral(Rat) LD50; >2000 mg/kg ^[1]	
I,N-dimethylcyclohexylamine/	TOXICITY	IRRITATION
CAPS/ hexamethylene	Inhalation(Rat) LC50; 0.158 mg/L4h ^[2]	Not Available
diisocyanate blocked	Oral(Rat) LD50; >5000 mg/kg ^[2]	
tridecanol ethoxylated, phosphated	TOXICITY	IRRITATION
	Oral(Rat) LD50; >2000 mg/kg ^[2]	Not Available
	TOXICITY	IRRITATION
isophorone diisocyanate homopolymer	Inhalation(Rat) LC50; 3.538 mg/L4h ^[1]	Not Available
nomopolymer	Oral(Rat) LD50; 5000 mg/kg ^[1]	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >14100 mg/kg ^[2]	Eye (human): 300 mg
	Inhalation(Rat) LC50; 0.74 mg/l4h ^[2]	Eye (rabbit): 20 mg (open)-SEVERE
n-butyl acetate	Oral(Rat) LD50; >3200 mg/kg ^[2]	Eye (rabbit): 20 mg/24h - moderate
		Eye: no adverse effect observed (not irritating) ^[1]
		Skin (rabbit): 500 mg/24h-moderate
		Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 9500 mg/kg ^[2]	Eye (human): 8 mg - mild
dipropylene glycol monomethyl ether	Oral(Rat) LD50; >5000 mg/kg ^[1]	Eye (rabbit): 500 mg/24hr - mild
		Skin (rabbit): 238 mg - mild
		Skin (rabbit): 500 mg (open)-mild
Legend:	Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Efi	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise fect of chemical Substances

HEXAMETHYLENE DIISOCYANATE

Chronic

Aromatic and aliphatic diisocyanates may cause airway toxicity and skin sensitization. Monomers and prepolymers exhibit similar respiratory effect. Of the several members of diisocyanates tested on experimental animals by inhalation and oral exposure, some caused cancer while others produced a harmless outcome.

For 1,6-hexamethylene diisocyanate (HDI):

Exposures to HDI are often associated with exposures to its prepolymers, one of which is widely used as a hardener in automobile and airplane paints. Both the prepolymers and the native substance may cause asthma. HDI is corrosive to the skin and eye, and will sensitise the skin and airway.

Version No: 12.15.10.9 Page 9 of 15 Issue Date: 03/30/2021
Polity 504 P. Codin (Markton)
Print Date: 08/20/2021

Poly 501 B Satin/Matte

* Bayer SDS ** Ardex SDS HEXAMETHYLENE DIISOCYANATE The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce **POLYMER** conjunctivitis N,N-DIMETHYLCYCLOHEXYLAMINE/ **CAPS/ HEXAMETHYLENE** SDS Ardex 6 P Part B Crosslinker Ardex Engineered Cements DIISOCYANATE BLOCKED Stephan SDS For alkyl alcohol alkoxylate phosphate (AAAPD) surfactants (alkyl or alcohol ether phosphates): Acute toxicity: This group of surfactants exhibit similar effects to the alcohol ether sulfates (AAASDs, such as sodium lauryl ether sulfate). They are likely to be irritating to the skin and eyes (R36/R38) in their undiluted forms, but not acutely toxic. Commercial products may contain excess phosphoric acid and may produce serious eye irritation (R41) or may even be classified as corrosive, acidic substances. Subchronic toxicity: Animal testing shows that these substances have relatively low chronic toxicity. TRIDECANOL ETHOXYLATED, For acid mists, aerosols, vapours **PHOSPHATED** Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there). Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may N-BUTYL ACETATE produce conjunctivitis. For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the DIPROPYLENE GLYCOL ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse MONOMETHYL ETHER effects on the reproductive organs, the developing embryo and foetus, blood or thymus gland, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terminal hydroxyl group produces and alkoxyacetic acid. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Poly 501 B Satin/Matte & HEXAMETHYLENE DIISOCYANATE Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic N,N-DIMETHYLCYCLOHEXYLAMINE/ condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating **CAPS/ HEXAMETHYLENE** compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden **DIISOCYANATE BLOCKED &** onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. TRIDECANOL ETHOXYLATED. PHOSPHATED & DIPROPYLENE **GLYCOL MONOMETHYL ETHER** Polv 501 B Satin/Matte & Allergic reactions involving the respiratory tract are usually due to interactions between IqE antibodies and allergens and occur rapidly. HEXAMETHYLENE DIISOCYANATE Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more & HEXAMETHYLENE prone than others, and exposure to other irritants may aggravate symptoms. **DIISOCYANATE POLYMER &** Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. N,N-DIMETHYLCYCLOHEXYLAMINE/ Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T **CAPS/ HEXAMETHYLENE** lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. DIISOCYANATE BLOCKED Polv 501 B Satin/Matte & HEXAMETHYLENE DIISOCYANATE The following information refers to contact allergens as a group and may not be specific to this product. & HEXAMETHYLENE Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of **DIISOCYANATE POLYMER &** contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact N,N-DIMETHYLCYCLOHEXYLAMINE/ urticaria, involve antibody-mediated immune reactions. **CAPS/ HEXAMETHYLENE** Isocvanate vapours are irritating to the airways and can cause their inflammation, with wheezing, gasping, severe distress, even loss of **DIISOCYANATE BLOCKED &** consciousness and fluid in the lungs. Nervous system symptoms that may occur include headache, sleep disturbance, euphoria, ISOPHORONE DIISOCYANATE inco-ordination, anxiety, depression and paranoia. HOMOPOLYMER Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body. Following hydrolysis the component alcohols and carboxylic acids are metabolized Oral acute toxicity studies have been reported for 51 of the 67 esters of aliphatic acyclic primary alcohols and aliphatic linear saturated carboxylic acids. The very low oral acute toxicity of this group of esters is demonstrated by oral LD50 values greater than 1850 mg/kg bw Poly 501 B Satin/Matte & N-BUTYL Genotoxicity studies have been performed in vitro using the following esters of aliphatic acyclic primary alcohols and aliphatic linear **ACETATE** saturated carboxylic acids: methyl acetate, butyl acetate, butyl stearate and the structurally related isoamyl formate and demonstrates that these substances are not genotoxic. The JEFCA Committee concluded that the substances in this group would not present safety concerns at the current levels of intake the esters of aliphatic acyclic primary alcohols and aliphatic linear saturated carboxylic acids are generally used as flavouring substances up to average maximum levels of 200 mg/kg. **HEXAMETHYLENE DIISOCYANATE** & HEXAMETHYLENE **DIISOCYANATE POLYMER &** N.N-DIMETHYLCYCLOHEXYLAMINE/ No significant acute toxicological data identified in literature search. **CAPS/ HEXAMETHYLENE DIISOCYANATE BLOCKED &** ISOPHORONE DIISOCYANATE **HOMOPOLYMER** HEXAMETHYLENE DIISOCYANATE The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the POLYMER & N-BUTYL ACETATE & DIPROPYLENE GLYCOL production of vesicles, scaling and thickening of the skin. MONOMETHYL ETHER

> Carcinogenicity Reproductivity

Acute Toxicity

Skin Irritation/Corrosion

Version No: 12.15.10.9 Page 10 of 15 Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

	1		1
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification 🎤 – Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Poly 501 B Satin/Matte	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC0(ECx)	24h	Crustacea	<0.33mg/l	1
hexamethylene diisocyanate	EC50	72h	Algae or other aquatic plants	>77.4mg/l	2
	LC50	96h	Fish	Fish 22mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Source
hexamethylene diisocyanate	EC50	72h	Algae or other aquatic plants	>1000mg/l	2
polymer	LC50	96h	Fish	8.9mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	50mg/l	2
N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
tridecanol ethoxylated, phosphated	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	816h	Fish	>=0.033mg/l	2
isophorone diisocyanate homopolymer	EC50	72h	Algae or other aquatic plants	>3.1mg/l	2
nomopolymer	LC50	96h	Fish	>1.51mg/l	2
	EC50	48h	Crustacea	>3.36mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Fish	18mg/l	2
n-butyl acetate	EC50	72h	Algae or other aquatic plants	246mg/l	2
	LC50	96h	Fish	18mg/l	2
	EC50	48h	Crustacea	32mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>969mg/l	2
dipropylene glycol	LC50	96h	Fish	>1000mg/l	2
monomethyl ether	EC50	48h	Crustacea	1930mg/l	2
	NOEC(ECx)	528h	Crustacea	>=0.5mg/l	2
	EC50	96h	Algae or other aquatic plants	>969mg/l	2

Legend:

V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Polyisocyanates are not readily biodegradable. However, due to other elimination mechanisms (hydrolysis, adsorption), long retention times in water are not to be expected. The resulting polyurea is more or less inert and, due to its molecular size, not bioavailable. For Isocyanate Monomers:

Environmental Fate: Isocyanates, (di- and polyfunctional isocyanates), are commonly used to make various polymers, such as polyurethanes. Polyurethanes find significant application in the manufacture of rigid and flexible foams. They are also used in the production of adhesives, elastomers, and coatings. DO NOT discharge into sewer or waterways

Version No: 12.15.10.9 Page **11** of **15**

Poly 501 B Satin/Matte

Issue Date: 03/30/2021 Print Date: 08/20/2021

Ingredient	Persistence: Water/Soil	Persistence: Air
hexamethylene diisocyanate	LOW	LOW
hexamethylene diisocyanate polymer	нідн	HIGH
isophorone diisocyanate homopolymer	нідн	HIGH
n-butyl acetate	LOW	LOW
dipropylene glycol monomethyl ether	нідн	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
hexamethylene diisocyanate	LOW (LogKOW = 3.1956)
hexamethylene diisocyanate polymer	LOW (LogKOW = 7.5795)
isophorone diisocyanate homopolymer	MEDIUM (LogKOW = 4.2608)
n-butyl acetate	LOW (BCF = 14)
dipropylene glycol monomethyl ether	LOW (BCF = 100)

Mobility in soil

Ingredient	Mobility
hexamethylene diisocyanate	LOW (KOC = 5864)
hexamethylene diisocyanate polymer	LOW (KOC = 18560000)
isophorone diisocyanate homopolymer	LOW (KOC = 19770)
n-butyl acetate	LOW (KOC = 20.86)
dipropylene glycol monomethyl ether	LOW (KOC = 10)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise:

Fill fromtainer cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- ▶ 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.
- ▶ 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).

SECTION 14 Transport information

Labels Required



Marine Pollutant

Land transport (DOT)

UN number	1866	
UN proper shipping name	Resin Solut	ion, flammable (contains n-butyl acetate)
Transport hazard class(es)	Class Subrisk	3 Not Applicable
Packing group	III	

Page **12** of **15** Version No: 12.15.10.9 Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

Environmental hazard	Not Applicable	
	Hazard Label	3
Special precautions for user	Special provisions	B1, B52, IB3, T2, TP1

Air transport (ICAO-IATA / DGR)

ansport (ICAO-IATA / DGI	1		
UN number	1866		
UN proper shipping name	Resin solution flammable (contains n-butyl acetate)		
	ICAO/IATA Class	3	
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable	
	ERG Code	3L	
Packing group	III		
Environmental hazard	Not Applicable		
	Special provisions		A3
	Cargo Only Packing Instructions		366
	Cargo Only Maximum	Qty / Pack	220 L
Special precautions for user	Passenger and Cargo	Packing Instructions	355
	Passenger and Cargo Maximum Qty / Pack		60 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y344
	Passenger and Cargo Limited Maximum Qty / Pack		10 L

Sea transport (IMDG-Code / GGVSee)

UN number	1866			
UN proper shipping name	RESIN SOLUTION fla	RESIN SOLUTION flammable (contains n-butyl acetate)		
Transport hazard class(es)	IMDG Class 3	Not Applicable		
Packing group	Ш			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-E 223 955 5 L		

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

Not Applicable

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

Product name	Group
hexamethylene diisocyanate	Not Available
hexamethylene diisocyanate polymer	Not Available
N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked	Not Available
tridecanol ethoxylated, phosphated	Not Available
isophorone diisocyanate homopolymer	Not Available
n-butyl acetate	Not Available
dipropylene glycol monomethyl ether	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
hexamethylene diisocyanate	Not Available
hexamethylene diisocyanate polymer	Not Available
N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked	Not Available
tridecanol ethoxylated, phosphated	Not Available

Version No: 12.15.10.9 Page 13 of 15 Issue Date: 03/30/2021

Poly 501 B Satin/Matte

Product name Ship Type isophorone diisocvanate Not Available homopolymer n-butyl acetate Not Available dipropylene glycol monomethyl Not Available ether

SECTION 15 Regulatory information

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

hexamethylene diisocyanate is found on the following regulatory lists	
US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants	L
US ACGIH Threshold Limit Values (TLV)	ι
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	l
US Clean Air Act - Hazardous Air Pollutants	ι
US DOE Temporary Emergency Exposure Limits (TEELs)	L
US EPA Integrated Risk Information System (IRIS)	L

hexamethylene diisocyanate polymer is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

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

Print Date: 08/20/2021

US TSCA Chemical Substance Inventory - Interim List of Active Substances

US TSCA New Chemical Exposure Limits (NCEL)

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

US TSCA New Chemical Exposure Limits (NCEL)

N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

tridecanol ethoxylated, phosphated is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

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

isophorone diisocyanate homopolymer is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-

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

n-butyl acetate is found on the following regulatory lists

US ACGIH Threshold Limit Values (TLV) 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 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

dipropylene glycol monomethyl ether is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-

Inactive) Rule

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 Chemical Substance Inventory - Interim List of Active Substances US TSCA Section 4/12 (b) - Sunset Dates/Status

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
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)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes

Version No: 12.15.10.9 Page **14** of **15** Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

Specific target organ toxicity (single or repeated exposure)		
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
hexamethylene diisocyanate	100	45.4
n-butyl acetate	5000	2270

State Regulations

US. California Proposition 65

None Reported

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (hexamethylene diisocyanate; N.N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked; tridecanol ethoxylated, phosphated; isophorone diisocyanate homopolymer; n-butyl acetate; dipropylene glycol monomethyl ether)	
China - IECSC	No (N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked)	
Europe - EINEC / ELINCS / NLP	No (N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked; tridecanol ethoxylated, phosphated)	
Japan - ENCS	No (hexamethylene diisocyanate polymer; N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked; tridecanol ethoxylated, phosphated; isophorone diisocyanate homopolymer)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (hexamethylene diisocyanate polymer; N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked; tridecanol ethoxylated, phosphated; isophorone diisocyanate homopolymer)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (N,N-dimethylcyclohexylamine/ CAPS/ hexamethylene diisocyanate blocked; isophorone diisocyanate homopolymer)	
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

Revision Date	03/30/2021
Initial Date	08/20/2019

CONTACT POINT

PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

SDS Version Summary

3D3 Version Summary				
Version	Date of Update	Sections Updated		
11.15.2.1	03/30/2021	Ingredients		
11.15.3.1	05/10/2021	Regulation Change		
11.15.4.1	05/24/2021	Regulation Change		
11.15.4.2	05/30/2021	Template Change		
11.15.4.3	06/04/2021	Template Change		
11.15.4.4	06/05/2021	Template Change		
11.15.4.5	06/09/2021	Template Change		
11.15.4.6	06/11/2021	Template Change		
11.15.4.7	06/15/2021	Template Change		
11.15.4.8	07/05/2021	Template Change		
11.15.5.8	07/14/2021	Regulation Change		
11.15.6.8	07/15/2021	Regulation Change		
11.15.6.9	08/01/2021	Template Change		
11.15.7.9	08/02/2021	Regulation Change		
11.15.8.9	08/05/2021	Regulation Change		
11.15.9.9	08/09/2021	Regulation Change		

Version No: 12.15.10.9 Page **15** of **15** Issue Date: 03/30/2021 Print Date: 08/20/2021

Poly 501 B Satin/Matte

Version **Date of Update Sections Updated** 11.15.10.9 08/16/2021 Regulation Change

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.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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