SAFETY DATA SHEET

NM5800055

Section 1. Identification

Product name	: Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer Clear 55 Sheen
Product code	: NM5800055
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: AcromaPro Wood Finishes 101 W. Prospect Avenue Cleveland, OH 44115
National contact	: AcromaPro Wood Finishes 140 Garden Ave. Brantford, ON N3S 7W4
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: 1-888-277-1448 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 2	
substance or mixture	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	
	SKIN SENSITIZATION - Category 1	
	CARCINOGENICITY - Category 2	
	TOXIC TO REPRODUCTION - Category 2	
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4.9% (oral), 21.5% (dermal), 22.8% (inhalation)	
GHS label elements		
Hazard pictograms		
	_	

Signal word

: Danger



Section 2. Hazards identification

Hazard statements	Lighty flammable liquid and vanar
Hazaru statements	: Highly flammable liquid and vapor. Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye damage.
	May cause drowsiness or dizziness.
	Suspected of causing cancer.
	Suspected of damaging fertility or the unborn child.
	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
	This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

Substance/mixture	1
Other means of	1
identification	

: Mixture : Not available.

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
n-Butyl Acetate	17.54	123-86-4
Methyl n-Amyl Ketone	11.7	110-43-0
Ethanol	10.14	64-17-5
Methyl Acetate	8.19	79-20-9
Cellulose Nitrate	6.44	9004-70-0
Lt. Aliphatic Hydrocarbon Solvent	4.89	64742-89-8
Methyl Ethyl Ketone	4.39	78-93-3
1-Butanol	3.8	71-36-3
2-Propanol	3.27	67-63-0
2-Methyl-1-propanol	2.64	78-83-1
Xylene, mixed isomers	0.8	1330-20-7
Light Aromatic Hydrocarbons	0.29	64742-95-6
Ethylbenzene	0.16	100-41-4
Heavy Aliphatic Solvent	0.13	64742-82-1
trimethylbenzene	0.11	25551-13-7
glyoxal	0.11	107-22-2
Methanol	0.1	67-56-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Date of issue/Date of revision	: 5/16/2024 Date of previous issue : 4/19/2024 Version : 18 3/25

Section 4. First aid measures

Potential acute health effe	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear cloves

See toxicological information (Section 11)

before removing it, or wear gloves.

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Unsuitable extinguishing media Specific hazards arising Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion haz		
media Unsuitable extinguishing : Do not use water jet. media		
media	l, CO ₂ , water spray (fog) or foam.	
Specific hazards arising : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion haz	r jet.	
from the chemical In a fire or if heated, a pressure increase will occur and the container may burst, with risk of a subsequent explosion. The vapor/gas is heavier than air and will spread alo the ground. Vapors may accumulate in low or confined areas or travel a considerabl distance to a source of ignition and flash back.	ted, a pressure increase will occur and the uent explosion. The vapor/gas is heavier th ors may accumulate in low or confined area	ntainer may burst, with the air and will spread along
Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides	,	
Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	o action shall be taken involving any persor ontainers from fire area if this can be done	risk or without suitable
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breath apparatus (SCBA) with a full face-piece operated in positive pressure mode.		
Remark : Flammable liquid.	I	

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large	spill
	-

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient	name		CAS #	Exposure limits			
n-Butyl Acetate		123-86-4	TWA: 150 p TWA: 710 m STEL: 200 p STEL: 950 n OSHA PEL (I TWA: 150 p TWA: 710 m ACGIH TLV (acetates]	(United States, pm 10 hours. ng/m ³ 10 hours. ng/m ³ 15 minutes. ng/m ³ 15 minute United States, 5 pm 8 hours. ng/m ³ 8 hours. (United States, 5 opm 15 minutes.	s. //2018).	utyl	
Date of issue/D	ate of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version	:18	6/25
IM5800055 Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer Clear 55 Sheen		cquer		SHW-85-I	NA-GHS-CA		

Methyl n-Amyl Ketone	110-43-0	TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023).	
		TWA: 50 ppm 8 hours. TWA: 233 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 465 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 465 mg/m ³ 8 hours.	
Ethanol	64-17-5	ACGIH TLV (United States, 7/2023). STEL: 1000 ppm 15 minutes. NIOSH REL (United States, 10/2020). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours.	
Methyl Acetate	79-20-9	ACGIH TLV (United States, 7/2023). TWA: 200 ppm 8 hours. TWA: 606 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 757 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2020). TWA: 200 ppm 10 hours. TWA: 610 mg/m ³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 760 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 610 mg/m ³ 8 hours.	
Cellulose Nitrate Lt. Aliphatic Hydrocarbon Solvent Methyl Ethyl Ketone	9004-70-0 64742-89-8 78-93-3	None. None. ACGIH TLV (United States, 7/2023). Absorbed through skin. TWA: 75 ppm 8 hours. STEL: 150 ppm 15 minutes. NIOSH REL (United States, 10/2020). TWA: 200 ppm 10 hours. TWA: 590 mg/m ³ 10 hours. STEL: 300 ppm 15 minutes. STEL: 885 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 590 mg/m ³ 8 hours.	
1-Butanol	71-36-3	ACGIH TLV (United States, 7/2023). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. CEIL: 50 ppm CEIL: 150 mg/m ³ OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours.	
2-Propanol	67-63-0	TWA: 300 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.	

	NIOSH REL (United States, 10/2020).TWA: 400 ppm 10 hours.TWA: 980 mg/m³ 10 hours.STEL: 500 ppm 15 minutes.STEL: 1225 mg/m³ 15 minutes.OSHA PEL (United States, 5/2018).TWA: 400 ppm 8 hours.TWA: 980 mg/m³ 8 hours.
78-83-1	ACGIH TLV (United States, 7/2023). TWA: 50 ppm 8 hours. TWA: 152 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 150 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 300 mg/m ³ 8 hours.
1330-20-7	OSHA PEL (United States, 5/2018). [Xylenes] TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). [p- xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
64742-95-6 100-41-4	None. ACGIH TLV (United States, 7/2023). Ototoxicant. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 435 mg/m ³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
64742-82-1 25551-13-7	None. ACGIH TLV (United States, 7/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours.
107-22-2	ACGIH TLV (United States, 7/2023). Skin sensitizer. TWA: 0.1 mg/m ³ 8 hours. Form: Inhalable fraction and vapor OARS WEEL (United States, 4/2022). Skin sensitizer. TWA: 0.1 mg/m ³ 8 hours.
67-56-1	ACGIH TLV (United States, 7/2023). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2020). Absorbed through skin.
	1330-20-7 64742-95-6 100-41-4 64742-82-1 25551-13-7 107-22-2

 -
TWA: 260 mg/m ³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits	
n-butyl acetate	123-86-4	 CA Alberta Provincial (Canada, 3/2023). OEL: 200 ppm 15 minutes. OEL: 950 mg/m³ 15 minutes. OEL: 150 ppm 8 hours. OEL: 713 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). [butyl acetate, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). [butyl acetates] STEV: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. 	
Methyl n-amyl ketone	110-43-0	 CA Alberta Provincial (Canada, 3/2023). OEL: 233 mg/m³ 8 hours. OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 25 ppm 8 hours. TWA: 115 mg/m³ 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 50 ppm 8 hours. TWAEV: 50 ppm 8 hours. TWAEV: 233 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours. 	
Ethyl alcohol	64-17-5	CA Alberta Provincial (Canada, 3/2023). OEL: 1000 ppm 8 hours. OEL: 1880 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). STEL: 1000 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013).	
te of issue/Date of revision : 5/16/2024 L 15800055 Bernyl™ FF Hi-Bild Pre-Catalyzed Lacqu Clear 55 Sheen	Date of previous issue	: 4/19/2024 Version : 18 S SHW-85-NA-GHS-CA	

		STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). STEV: 1000 ppm 15 minutes.
Methyl acetate	79-20-9	 CA Alberta Provincial (Canada, 3/2023). OEL: 606 mg/m³ 8 hours. OEL: 757 mg/m³ 15 minutes. OEL: 250 ppm 15 minutes. OEL: 200 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). TWAEV: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). TWAEV: 200 ppm 8 hours. STEV: 757 mg/m³ 15 minutes. STEV: 757 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.
Methyl ethyl ketone	78-93-3	 CA Alberta Provincial (Canada, 3/2023). OEL: 300 ppm 15 minutes. OEL: 200 ppm 8 hours. OEL: 590 mg/m³ 8 hours. OEL: 590 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). TWAEV: 50 ppm 8 hours. STEV: 100 ppm 15 minutes. STEV: 100 ppm 15 minutes. STEV: 100 ppm 15 minutes. STEV: 300 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.
Normal butyl alcohol	71-36-3	 CA Alberta Provincial (Canada, 3/2023). OEL: 60 mg/m³ 8 hours. OEL: 20 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 15 ppm 8 hours. C: 30 ppm CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). Absorbed through skin.
e of issue/Date of revision : 5/16/20	24 Date of previous issue	: 4/19/2024 Version : 18

Isopropyl alcohol67-63-0STEV: 50 ppm 15 minutes. STEV: 152 mg/m³ 15 minutes. TA: 20 ppm 15 minutes. TWA: 20 ppm 8 hours. OEL: 984 mg/m³ 15 minutes. OEL: 200 ppm 8 hours. OEL: 400 ppm 15 minutes. OEL: 400 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2023). TWA: 200 ppm 8 hours. OEL: 400 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2019). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. STEL: 400 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2023). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. CA Oppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2023). TWAEV: 200 ppm 15 minutes.
OEL: 984 mg/m ³ 15 minutes. OEL: 200 ppm 8 hours. OEL: 400 ppm 15 minutes. OEL: 492 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). TWAEV: 200 ppm 8 hours. STEV: 400 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 400 ppm 15 minutes.
TWA: 200 ppm 8 hours.
Isobutyl alcohol78-83-1CA Alberta Provincial (Canada, 3/2023). OEL: 50 ppm 8 hours. OEL: 152 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 50 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Xylene1330-20-7CA Alberta Provincial (Canada, 3/2023). [Dimethylbenzene] OEL: 100 ppm 8 hours. OEL: 651 mg/m³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada,

	•	
Ethylbenzene	100-41-4	 [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Alberta Provincial (Canada, 3/2023). OEL: 100 ppm 8 hours. OEL: 434 mg/m³ 8 hours. OEL: 434 mg/m³ 15 minutes. OEL: 543 mg/m³ 15 minutes. OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2023).
		 TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Glyoxal	107-22-2	 CA Saskatchewan Provincial (Canada, 7/2013). Skin sensitizer. Inhalation sensitizer. STEL: 0.3 mg/m³ 15 minutes. Form: Inhalable fraction and vapour TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapour CA Ontario Provincial (Canada, 6/2019). TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapour. CA Alberta Provincial (Canada, 3/2023). OEL: 0.1 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). Skin sensitizer. Notes: vapour and inhalable aerosol. TWA: 0.1 mg/m³ 8 hours. Form: Inhalable yapour and aerosol
Methyl alcohol	67-56-1	 CA Alberta Provincial (Canada, 3/2023). Absorbed through skin. OEL: 262 mg/m³ 8 hours. OEL: 200 ppm 8 hours. OEL: 250 ppm 15 minutes. OEL: 328 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). Absorbed through skin. TWAEV: 200 ppm 8 hours.
Date of issue/Date of revision : 5/16/2024 NM5800055 Bernyl™ FF Hi-Bild Pre-Catalyzed Lacqu	Date of previous issue	: 4/19/2024 Version : 18 12/25 SHW-85-NA-GHS-CA
Clear 55 Sheen		

TWAEV: 262 mg/m ³ 8 hours.
STEV: 250 ppm 15 minutes.
STEV: 328 mg/m ³ 15 minutes.
CA Saskatchewan Provincial (Canada,
7/2013). Absorbed through skin.
STEL: 250 ppm 15 minutes.
TWA: 200 ppm 8 hours.

Ingredient name	CAS #	Exposure limits
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016).
Ethanol	64-17-5	TWA: 50 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes.
Methyl Acetate	79-20-9	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.
Methyl Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
1-Butanol	71-36-3	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 20 ppm 8 hours.
2-Propanol	67-63-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.
2-Methyl-1-propanol	78-83-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
Methanol	67-56-1	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.

Biological exposure indices (United States)

Ingredient name			Exposure indic	es	
Methyl Ethyl Ketone		ACGIH BEI (United States, 7/2023) BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.			
2-Propanol			BEI: 40 mg/l, a	i ted States, 7/2023) cetone [in urine]. Samp t at end of workweek.	bling
Xylene, mixed isomers			(technical or co BEI: 0.3 g/g cre	ited States, 7/2023) [x mmercial grades)] eatinine, methylhippurio ing time: end of shift.	-
Ethylbenzene			BEI: 0.15 g/g c	i ted States, 7/2023) reatinine, sum of manc glyoxylic acid [in urine]. end of shift.	
Date of issue/Date of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version :18	13/25
NM5800055 Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer Clear 55 Sheen			SHW-85-NA-GHS-0	CA	

Methanol	ACGIH BEI (United States, 7/2023)
	BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 2 mg/L, MEK [in urine]. Sampling time: at the end of the work shift.
2-Propanol	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 40 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the shift at the end of the work week.
Methanol	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 15 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], methane [in urine]. Sampling time: at the end of the work shift.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

Date of issue/Date	e of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version	:18	14/25
NM5800055	Bernyl™ FF Hi-Bild Pro Clear 55 Sheen	e-Catalyzed La	oquer		SHW-85-	NA-GHS-CA	N

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures	<u>b</u>
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling	: 55°C (131°F)
point, and boiling range	
Flash point	: Closed cup: -2°C (28.4°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 5.6 (butyl acetate = 1)
Flammability	: Flammable liquid.

Date of issue/Date	of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version	:18	15/25
NM5800055	Bernyl™ FF Hi-Bild Pre Clear 55 Sheen	-Catalyzed Laco	quer		SHW-85-I	NA-GHS-CA	

Section 9. Physical and chemical properties

Lower and upper explosion limit/flammability limit		: Lower: 0.9% Upper: 19%				
Vapor pressure	: 22.	22.8 kPa (171 mm Hg)				
Relative vapor density	: 1.5	1.5 [Air = 1]				
Relative density	: 0.9					
Solubility(ies)	:					
Media		Result				
cold water		Not soluble				
Partition coefficient: n- octanol/water	: Not applicable.					
Auto-ignition temperature	: Not	t available.				
Decomposition temperature	: Not available.					
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)					
Molecular weight	: No	: Not applicable.				
Heat of combustion	: 23.	449 kJ/g				

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Methyl Acetate	LD50 Dermal	Rabbit	>5 g/kg	-
, ,	LD50 Oral	Rat	>5 g/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
Date of issue/Date of revision	: 5/16/2024 Date of previous issue	: 4/19/2024	Vers	ion :18 16/25
NM5800055 Bernyl™ FF Hi-Bil Clear 55 Sheen	d Pre-Catalyzed Lacquer		SHV	V-85-NA-GHS-CA

	ogical informatio			
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
glyoxal	LD50 Oral	Rat	200 mg/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
	Europ Madausta imitant	Dahbit		mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	400 mg 24 hours 20	-
	Skill - Moderate Initalit	Rabbit	-		-
Methyl Acetate	Eyes - Moderate irritant	Rabbit		mg 24 hours 100	
		Tabbit	-	mg	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	
		Rabbit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	_
		T CODIC		mg	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	_
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
1-Butanol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
2-Propanol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
Valence mains die ensem	Skin - Mild irritant	Rabbit	-	500 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	

NM5800055

^{17/25}

	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	_	100 %	_
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
-				uL	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
glyoxal	Eyes - Mild irritant	Rabbit	-	100 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				uL	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	258 mg	-
	Skin - Mild irritant	Rabbit	-	4 hours 500	-
				uL	
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethanol	-	1	-
2-Propanol	-	3	-
Xylene, mixed isomers	-	3	-
Ethylbenzene	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name			Category	Route of exposure	Target organs
n-Butyl Aceta Methyl n-Am Ethanol Methyl Aceta Lt. Aliphatic I Methyl Ethyl	yl Ketone ite Hydrocarbon Sc	lvent	Category 3 Category 3 Category 3 Category 3 Category 3 Category 3	- - - - -	Narcotic effects Narcotic effects Narcotic effects Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation
Date of issue/Date of revision: 5/16/2024DateNM5800055Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer Clear 55 Sheen		previous issue : 4/19	9/2024	Version : 18 18/25 SHW-85-NA-GHS-CA	

Category 3		Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Narcotic effects
Category 3	-	Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 1	-	-
Category 3		Narcotic effects
	Category 3 Category 1	Category 3 - Category 3 -

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Ethyl Ketone	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	-
Heavy Aliphatic Solvent	Category 1	-	central nervous system (CNS)
glyoxal	Category 2	-	-

Aspiration hazard

Name	Result
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

 Potential acute health effects

 Eye contact
 : Causes serious eye damage.

 Inhalation
 : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

 Skin contact
 : Causes skin irritation. May cause an allergic skin reaction.

 Ingestion
 : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics							
Eye contact :	Adverse symptoms may include the following: pain watering redness						

Date of issue/Date of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version : 18	19/25
NM5800055 Bernyl™ FF Clear 55 She	Hi-Bild Pre-Catalyzed La en	cquer		SHW-85-NA-GHS-CA	

Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting
	headache
	drowsiness/fatigue
	dizziness/vertigo unconsciousness
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	pain or irritation
	redness
	blistering may occur reduced fetal weight
	increase in fetal deaths
	skeletal malformations
ngestion	: Adverse symptoms may include the following:
	stomach pains
	reduced fetal weight
	increase in fetal deaths skeletal malformations
Delaved and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
<u>_ong term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health e	fects
lot available.	
General	: May cause damage to organs through prolonged or repeated exposure. Once
	sensitized, a severe allergic reaction may occur when subsequently exposed to very low
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral Dermal	8223.29 mg/kg 41488.33 mg/kg
Inhalation (vapors)	72.6 mg/l

Date of issue/Date	of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version	:18	20/25
NM5800055	Bernyl™ FF Hi-Bild Pre- Clear 55 Sheen	Catalyzed Laco	quer		SHW-85-	NA-GHS-CA	

Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours 🥄
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
	10	franciscana - Larvae	-
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks
Methyl Acetate	Acute LC50 320000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Methyl Ethyl Ketone	Acute EC50 >500000 μg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1-Butanol	Acute EC50 1983 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-Propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
2-Methyl-1-propanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 7700 µg/I Marine water	0	48 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
glyoxal	Acute LC50 215000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

Persistence and degradability

Date of issue/Date	of revision	: 5/16/2024	Date of previous issue	: 4/19/2024	Version	:18	21/25
NM5800055	Bernyl™ FF Hi-Bild Pre Clear 55 Sheen	e-Catalyzed Lac	quer		SHW-85-	NA-GHS-CA	4

	0		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Methyl n-Amyl Ketone	-	-	Readily
Ethanol	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
1-Butanol	-	-	Readily
2-Propanol	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Light Aromatic Hydrocarbons	. –	-	Readily
Ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	High	
Xylene, mixed isomers	-	8.1 to 25.9	Low	
Light Aromatic Hydrocarbons	-	10 to 2500	High	
Heavy Aliphatic Solvent	-	10 to 2500	High	
glyoxal	-	3.2	Low	
Methanol	-	<10	Low	

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section	14.	Transport	information	l
---------	-----	-----------	-------------	---

Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN1263	UN1263	UN1263	UN1263	UN1263
PAINT	PAINT	PAINT	PAINT	PAINT
3	3	3	3	3
=	Ш	11	11	II
No.	No.	No.	No.	No.
- <u>ERG No.</u> 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). ERG No. 128	- <u>ERG No.</u> 128		<u>Emergency</u> <u>schedules</u> F-E, S E
conside mode o suitably to ship of the p danger	er container sizes. Th of transport (sea, air, y for that mode of trar ment, and compliance person offering the pr ous goods must be tr	e presence of a shi etc.), does not indic nsport. All packaging e with the applicable oduct for transport. rained on all of the r	pping description ate that the produ g must be reviewe regulations is the People loading ar isks deriving from	for a particular ct is packaged ed for suitability prior e sole responsibility ad unloading
	UN1263 PAINT 3 II No ERG No. 128 for user : Multi-m conside mode of suitably to ship of the p danger	UN1263UN1263PAINTPAINT33Image: State of the state o	UN1263 UN1263 UN1263 PAINT PAINT PAINT 3 3 3 II II II No. No. No. - Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). - ERG No. 128 ERG No. 128 S for user : Multi-modal shipping descriptions are provided 1 consider container sizes. The presence of a shim mode of transport (sea, air, etc.), does not indic suitably for that mode of transport. All packaging to shipment, and compliance with the applicable of the person offering the product for transport. dangerous goods must be trained on all of the r	UN1263UN1263UN1263UN1263PAINTPAINTPAINTPAINT3333Image: State Stat

Proper shipping name

: Not available.

Section 15. Regulatory information

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

International regulations Montreal Protocol

NetPeter

Not list	ed.
----------	-----

Date of issue/Date	of revisio	n
NM5800055	Bernyl™	FF

Section 15. Regulatory information

Stockholm Convention on Persistent Organic Pollutants Not listed.

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification	
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
SKIN CORROSION/IRRITATION - Category 2	Calculation method	
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method	
SKIN SENSITIZATION - Category 1	Calculation method	
CARCINOGENICITY - Category 2	Calculation method	
TOXIC TO REPRODUCTION - Category 2	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method	

н	IS	to	rv	
_		-		

Date of printing	: 5/16/2024
Date of issue/Date of revision	: 5/16/2024
Date of previous issue	: 4/19/2024
Version	: 18

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
— — — — — — — — — —	

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.