

MATERIAL SAFETY DATA SHEET
General Finishes Corporation

SECTION 1: Material Identification

Material Name: Industrial Stain

Colors: Natural, Antique Cherry, Antique Oak, Black Cherry, Brown Mahogany, Country Pine, Early American, Espresso, Golden Oak, Natural, Pecan, Rosewood, Shaker Maple, Walnut

Revision Date: March 10, 2008

Material Description: Industrial Water-based Stain

HMIS Ratings

Health: 1
Flammability: 1
Reactivity: 0

Manufacturer:

General Finishes Corp., 2462 Corporate Circle, East Troy, WI 53120
(800) 783-6050

Emergency Phone Numbers:

(262) 642-4545

SECTION 2: Composition/Information on Ingredients

CAS #	Chemical Name	Percent	TLV	PEL
7732-18-5	Water	80 – 85%	Not applicable	Not applicable
57-55-6	Propylene glycol	0.5 – 1.5%	Not established	Not established
34590-94-8	Dipropylene Glycol monoethyl ether	<0.8%	100 ppm TWA	100 ppm TWA
111-90-0	Diethylene Glycol monoethyl ether	<1.2%	Not established	Not established
Proprietary	Ammonia salts of modified acrylic polymers	5 - 12%	Not established	Not established
14808-60-7	Quartz	0-2%	0.1 mg/m ³ TWA	0.1 mg/m ³ TWA
1333-86-4	Carbon Black	0-0.5%	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA
Proprietary	Proprietary Pigments	0-9%	Not established	Not established
Proprietary	Proprietary Dyes	0-2%	Not established	Not established

SECTION 3: Hazards Identification

* Emergency Overview *

Tinted liquid. Combustible. May cause eye, skin or respiratory irritation, dizziness, headache, nausea.

Effects of Short-Term Overexposure:

Eyes: Irritation

Skin: Irritation

Inhalation: Irritation, headache, dizziness, nausea

Ingestion: Irritation, nausea

Effects of Chronic Overexposure: ND

Material Exposure Limits: See Section 2 for information on ingredients.

Routes of Entry: Contact, inhalation, ingestion

Target Organs: Eyes, skin, respiratory system, nervous system

Cancer Rating: This material may contain more than 0.1% of any chemical listed by NTP, IARC or OSHA as being carcinogenic (color dependent).

14808-60-7 Quartz

1333-86-4 Carbon Black

Additional Information: Not applicable

SECTION 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if necessary.

Inhalation: If exposed to excessive levels, remove to fresh air. Seek medical attention if necessary.

Ingestion: Rinse mouth if conscious. Seek medical attention if necessary.

SECTION 5: Fire Fighting Measures

Flash Point: > 210 °F

Method Used: CC (ASTM D3828)

Flammable Limits (Percentage in air):

UEL: ND

LEL: ND

Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray

Control Measures: Use self-contained breathing apparatus and full turn-out gear. Use water spray to cool containers.

Unusual Hazards: Closed containers may rupture or explode when exposed to extreme heat.

SECTION 6: Accidental Release Measures

Spills: Use personal protective equipment. Ventilate area. Contain spilled material and soak up with inert absorbant. Collect for disposal.

Releases to the air: Not applicable

SECTION 7: Handling and Storage

Handling: Avoid personal contact. Use with adequate ventilation. Wash after handling.

Storage requirements: Keep container closed and upright. Do not store above 120 °F.

SECTION 8: Exposure Controls and Personal Protection

Protective equipment:*

Eyes: Safety glasses or chemical goggles

Skin: Impervious gloves should be worn to prevent prolonged or repeated skin contact

Respiratory: A NIOSH/MSHA approved air-purifying respirator if exposure limits exceeded

Ventilation: Good general ventilation should be sufficient to control airborne levels.

Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Additional information: None

*Protective equipment should be determined by conditions of exposure.

SECTION 9: Physical and Chemical Properties

Appearance and Odor: Tinted liquid, mild odor

Specific gravity (water = 1): 1.02-1.05

Boiling point: > 212.0 °F

Melting/freezing point: ND

Percent volatile: 83 - 89% /wt

VOC: See list, Section 15

Vapor pressure: ND

Vapor density (air = 1): ND

Evaporation rate (n-Butyl acetate = 1): ND

pH: ND

Solubility in water: Miscible

SECTION 10: Stability and Reactivity

Stability: Stable

Conditions to avoid: Not applicable

Hazardous polymerization: Not applicable

Conditions to avoid: Not applicable

Incompatibility: Strong oxidizers
Hazardous decomposition products: CO, CO₂
Unusual hazards: Not applicable

SECTION 11: Toxicological Information

No information available at this time.

SECTION 12: Ecological Information

No information required at this time.

SECTION 13: Disposal Procedures

Material and containers should be disposed in accordance with local, state and federal regulations.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. **Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. Empty containers should be completely drained and properly disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14: Transportation Information

DOT Hazard Classification: Not regulated

SECTION 15: Regulatory Information

SARA Title III Section 302 Extremely Hazardous Substances above de minimis level: None

CERCLA Hazardous Substances above de minimis level: None

SARA Title III Section 313 Toxic Chemicals above de minimis level:

Glycol ethers

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause cancer:

1333-86-4 Carbon Black

14808-60-7 Quartz

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.

64-17-5 Ethanol

VOC Data*:

Color	VOC lb/gal	VOC g/l	% Solvent	Wt./Gal
Antique Cherry	1.96	235	3.16	8.68
Antique Oak	1.83	220	3.02	8.54
Black Cherry	1.75	210	3.07	8.65
Brown Mahogany	1.87	224	3.10	8.63
Country Pine	1.85	222	2.99	8.54
Early American	2.00	239	3.43	8.67
Espresso	1.75	210	3.11	8.63
Golden Oak	1.86	223	3.02	8.57
Natural	1.97	236	3.12	8.54
Pecan	1.88	225	3.14	8.66
Rosewood	1.74	208	3.14	8.73
Shaker Maple	1.92	230	3.10	8.62
Walnut	1.87	224	3.73	8.58

*Grams (pounds) of VOC per Liter (gallon) of coating, less water and less exempt compounds

SECTION 16: Other Information

Abbreviations:

NA - Not applicable

ND - Not determined

General Finishes believes that the information contained in this MSDS is correct as of this date. However, because the material may be used under conditions over which General Finishes has no control or in ways we cannot anticipate, we give no warranty, expressed or implied, as to the accuracy of the information. General Finishes assumes no responsibility for any damage to person, property or user of this material or to insure that it is properly and safely used.

End of MSDS



Renner Wood Coatings
1024 Porter Street
High Point - NC 27263

YOXX E245 00

Premium Water Base Top Coat Clear

Main properties:

• Excellent hardness and touch feeling	• Excellent sheen level uniformity
• Good yellowing resistance	• Low VOC product
• Clear versions provide excellent transparency	

Product certification:

• Comply with EN 71.3 (toys)	• Comply with LMBG B 82-10-1
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Versions:

Y05 E245 00	5 gloss clear	YO10 E245 00	10 gloss clear	YO30 245 00	30 gloss clear
YO50 E245 00	50 gloss clear	YO90 E245 00	90 gloss clear		

Recommended use:	• General purpose	• Interior furniture	• Shutters
Application method:	Spray (conventional, airless, airmix). Electrostatic guns may be used provided they are suitable for waterborne products		
Blending instructions	Ready to use. May be further thinned with tap water if necessary		

Chemical-physical properties (25 °C / 77 °F)

Solids content (%)	28.32 ± 2
Specific gravity (g/cm ³)	1.025 ± 0,02
Viscosity Ford 6 (s)	55 ± 5
pH	8.5 ± 0.5

Application properties

Vertical application (wet µm)	120 g/m ² max
Recommended N° of coats	1
Recommended quantity per coat (g/m ²)	min: 90 max: 130
Spreading rate (m ² /litre)	7 - 10

General remarks on the application system

Drying at 20°C and 45 – 65 RU% : 120 g/m²	
Dust free	45 min
Handling	1 h
Stackable	16 h

Forced drying: 120 g/m²		
	Temperature	Time
Flash Off	25 °C / 77 °F	10 min
Laminar air	45 °C / 113 °F	30 min
Cooling	20°C / 68 °F	10 min
Stackable		2 h

Substrate preparation: sand the base coat well with 320 – 400 grit paper. YOxx E245 00 can be applied on top of waterborne, Polyester and UV base coats. Its application on top of Nitro and Polyurethane base coats is not recommended

Application instructions: To obtain the best results, it is recommendable not to thin with water but to choose the best application conditions that allow the maximum atomization. For example, for spray application:

	Thinning ratio %	Nozzle	Air pressure	Coating pressure
Conventional gun	2 - 4	1.9 to 2.0	3 - 4	--
Airmix	--	9-11	0 - 2	80 -110
Airless	--	9-11	--	120 - 150

The use of pre atomizers and pre heaters (with temperatures between 30 and 40 °C) ensure better application constancy whatever it is the ambient room. Drying should be carried out in areas with good air ventilation (the whole volume of air of the drying room should be renewed every 15-20 minutes).

For further information regarding the use of waterborne products, please refer to the Main Guide

General remarks

- Mix well before use.
- If properly stored at temperatures between 5 and 35°C, shelf life is 12 months
- On application the temperature of the product, the substrate, the coating and the working environment should never fall below 15°C. Coatings applied at lower temperatures will show chemical and mechanical properties lower than standard performances that can be normally achieved.
- Coating left overs (washing waters, waters from spray booths, used coatings) must be disposed of according to local regulations. Never dispose residues directly into drains.
- Application tools must be cleaned with water after use. When dry films must be removed, **AY---M460**, special detergent should be used, letting it work overnight and then cleansing with water

What to do in order to....	Add	% of use	
		%	Grams for 25 litres
Increase chemical resistance with cross-linking catalyst	YC---E401	1 - 2	250 - 500



Material Safety Data Sheet (MSDS)

1 - Chemical Product and Company Identification

Product : YL E150 00 - WB SEALER FOR INT

Company:

Renner Sayerlack S.A.

Address:

Av. Jordano Mendes, 1500

City:

Cajamar

Country:

Brazil

Phone Number:

5511 2117-9000 / 1 336 431-1157 - USA

Fax:

5511 2117-9081 / 1 336 431-1158 - USA

State:

Sao Paulo

ZIP Code:

07760-000

Emergency Phone:

001 800 255 3924

E-mail:

techsupport@renner-usa.com

HMIS INFORMATION

Health	2
Flammability	0
Reactivity	0
Personal Protection	H

H = gloves, safety glasses,
apron and mask

Hazard Index

4	Severe
3	Serious
2	Moderate
1	Slight
0	Minimal

2 - Composition Information on Ingredients

Product type: Prepared

Chemical Nature: WB ACRYLIC VARNISH

Ingredients or impurities which contribute to hazards:

CHEMICAL NAME	CAS NR	Concentration	Symbol	R Phrases	Vapour Pressure mmHg (°C/°F).
calcium stearate dispersion in water	N.a.	1.05 - 1.75	N.a.	N.a.	N.a.

CHEMICAL NAME	OSHA PEL	OSHA STEL	ACGIH TLV (TWA)	ACGIH STEL
calcium stearate dispersion in water	N.a.	N.a.	N.a.	N.a.

3 - Hazards Identification

Product's effects:

Effects harmful to human health:

It can produce irritation of the mouth and throat. It may cause gastrointestinal irritation, headaches, weakness, dizziness, feeling faint and nausea and loss of concience.

Severe irritation, tearing, redness and blurred vision

Prolonged contact causes dry skin, cracks, irritation and dermatitis.

Respiratory and mucous irritation, membrane irritation, headaches, fainting, loss of coordination, feeling faint or loss of concience.

Main symptoms:

Faints, dizziness and headache in case of vapours.

Emergency overview:

S2 - Keep out of reach of children.

S15/16 - Keep far from the heat and the any spark source. Do not smoke.

Route of Entry:

Inalation = Yes Skin = Yes Ingestion = Yes

CHEMICAL NAME	NTP	IARC	OSHA
calcium stearate dispersion in water	Not Known	Not Known	Not Known



Material Safety Data Sheet (MSDS)

CHEMICAL NAME	NTP	IARC	OSHA
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Inhalation:

Move person to the fresh air. If breathing slows or stops, start artificial respiration and get medical attention immediately.

Contact with skin:

Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately.

Contact with eyes:

Flush them immediately with plenty of water at least 15 minutes and look for medical assistance

Ingestion:

Do not induce vomiting and contact a physician immediately.

Actions to be avoided:

Avoid the direct contact with the product on the skin.

Description of main symptoms and effects:

Nauseas, cough, shortness of breath, dehydration, dizziness, weakness, headaches drowsiness.

Protection for the first aid provider person:

Special First Aid Precautions

Notes for the physician:

Medical Information Contact

5 - Fire Fighting Measures

Appropriate extinguishing material:

Not classified as flammable. If involved in fire, can emit nocive and toxic gases
Foam, Carbon Dioxide or Dry Chemical

Inappropriate extinguishing material:

None

Special methods:

Water may be ineffective in fighting fire. If water is used to cool containers to prevent pressure build-up, fog nozzles are preferred.

Protection for firemen:

Full protective equipment, including self-contained breathing apparatus is needed to protect firefighters from exposure to the coating's hazardous ingredients and hazardous decomposition products.

Flash Point Method:

TCC

Flash Point:

N.a.

6 - Accidental Release Measures

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand

If the product has escaped into a water course, into the drainage system, or has contaminated the the ground or vegetation, notify the competent authorities.



Material Safety Data Sheet (MSDS)

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

7 - Handling and Storage

Handling:

Technical measures:

Prevention - worker's exposure:

Handle according to the established safety standards. Wear appropriate safety equipment.

Explosion and fire prevention:

All the equipment must be grounded. Do not smoke. Do not handle the product near sources of heat and ignition. Take the measures against electrostatic charges.

Precautions for safe handling:

Wear appropriate safety equipment.

Guidelines for safe handling:

Avoid contact with the skin, mucous and eyes. Handle the product in well-ventilated area. Do not re-use the package. Do not handle in plastic recipient. Do not smoke in the area of product handling.

Storage:

Appropriate technical measures:

All equipment must be grounded. Keep containers closed when not in use. Store in a clean and dry area. Store away from ignition sources. Store in a well-ventilated area. Avoid exposure to light. Avoid strong oxidizing agents.

Storage conditions:

Appropriate:

Cover, clean, dry and well-ventilated areas.

Avoid:

Humid, uncovered and unventilated places. Avoid the presence of drains or other kinds of leaking in the warehouse.

Incompatible products and material:

Do not keep the product with explosive materials, flammable and/or toxic gases, oxidizing substances, corrosives, organic peroxide, materials of spontaneous fire and radioactive materials.

Safe materials for packing:

Recommended:

Metallic packages internally recovered or plastic packages

Inadequate:

Metallic Packages.

8 - Explosion Control and Personal Protection

Engineering control measures:

Periodically monitor vapor concentration in the areas of use. Exhaust/ventilate workplaces.

Specific control parameters:

Recommended monitoring procedures:

Adopt domestic and/or international procedures. Regulatory norm n°15 of the Labor Ministry, labor hygiene norms by FUNDACENTRO, NIOSH procedures or ACGIH procedures.



Material Safety Data Sheet (MSDS)

Personal protective equipment:

Respiratory protection:

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during the application and handling.

Hand protection:

Chemical resistant protective gloves should be worn when handling this product. Check with glove manufacturer to determine proper glove type.

Eyes protection:

Splash-proof chemical goggles should be worn.

Skin and body protection:

Eyes bath and safety shower should be provided. Rubber apron should be worn.

Special precautions:

According to the work conditions, following the regulated standards.

Hygiene measures:

Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and specially if contamination occurs.

9 - Physical and Chemical Properties

Physical state:

Liquid

Color:

Product with the final code 00 means transparent product. Others numbers mean coloured product.

Odour:

Characteristic

pH:

8.5 ± 0.5

Specific temperatures or temperature ranges in which there are changes in physical state:

Vapour density air = 1

Heavier than air

Boiling Point:

100.00 °C 212.00 °F

VOC:

0.017 kg/l 0.142 pounds/US gallon

HAP:

0.000 maximum Kg HAP/Kg solids 0.000 Lbs Hap's/US gallon of solids

Density:

1.028 ± 0.020 g/cm³

Explosivity limits:

Not applicable.

Solubility:

Soluble in water.

10 - Stability and Reactivity

Instability:

The product remains stable in recommended storage conditions.



Material Safety Data Sheet (MSDS)

Hazardous reactions:

None one the product is stored and applied correctly.

Avoid:

High temperatures, contact with oxidizing agents and sources of heat and ignition.

Hazardous decomposition products:

Not available because this product is a mixture of chemical substances.

11 - Toxicological Information

Information according to different exposure media:**Acute Toxicity:**

Not specified by Brazilian laws. Whenever working with the product, it is advisable to observe the toxicity of the ingredients.

Local effects:

According to the information described on item 3.

12 - Ecological Information

Environmental effects, behavior and impacts of the product:**Mobility:**

All the measures should be taken respecting the requirements of the Federal, State and local regulations.

Persistency / degradability:

Product partially non degradable.

Environmental impact:

Product soluble in water. Large volumes can contaminate the water table.

13 - Treatment and Disposal Considerations

Treatment and disposal methods:**Product:**

Dispose of it in accordance with Federal, State and local regulations. Incineration is the preferred method of disposal.

Product residues:

Residues which will not be used any more should be disposed of according to the Federal, State and local regulations.

Used package:

The package can not be re-used and must be disposed of appropriately.

14 - Transport Information

Domestic and International regulations:**Land:**

UN: This product is not regulated by transport.
Risk Number:
Class Number:
Packaging Group:
Appropriate name for shipment: (Paint).



Material Safety Data Sheet (MSDS)

Sea:

IMDG/GGVSSea/UN: This product is not regulated by transport.
Risk Number:
Class Number:
Packaging Group:
Appropriate name for shipment: (Paint).

Air:

UN: This product is not regulated by transport.
Risk Number:
Class Number:
Packaging Group:
Appropriate name for shipment: (Paint).

15 - Regulatory Information

Information on risk and safety according to what is written on labels:

Product harmful to health. Not flammable liquid.

16 - Other Information

Bibliographical information:

The information and recommendations presented in this document are based on experiences and knowledges and the datas informed refer to the material in question exclusively, can not be extended to other use, other material or to any other process. These information also can subject to change without prior notice.

Key:

LD50 - Lethal dose for 50% of mice population.

N.a. - Not available

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

STEL - Short-Term Exposure Limit

FUNDACENTRO - Fundação Jorge Duprat de Segurança e Medicina do Trabalho



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State:

Sao Paulo

ZIP Code:

07760-000

Emergency Phone:

001 800 255 3924

E-mail:

techsupport@renner-usa.com

HMIS INFORMATION

Health	2
Flammability	0
Reactivity	0
Personal Protection	H

H = gloves, safety glasses,
apron and mask

Hazard Index

4	Severe
3	Serious
2	Moderate
1	Slight
0	Minimal

2 - Composition Information on Ingredients

Product type: Prepared

Chemical Nature: WB ACRYLIC PAINT

Ingredients or impurities which contribute to hazards:

CHEMICAL NAME	CAS NR	Concentration	Symbol	R Phrases	Vapour Pressure mmHg (°C/°F).
2-butoxy ethanol	111-76-2	1.05 - 1.75	Xn	R20/21/22;R37	0.6 mmHg 20.1 °C 68.2 °F
acrylic copolymer	N.a.	15.23 - 25.38	N.a.	N.a.	N.a.
calcium stearate dispersion aqueous	N.a.	1.13 - 1.88	N.a.	N.a.	N.a.
dispersion aqueous polyuretane alifatic	N.a.	3.83 - 6.38	N.a.	N.a.	N.a.
water	7732-18-5	52.05 - 86.75	N.a.	N.a.	N.a.

CHEMICAL NAME	OSHA PEL	OSHA STEL	ACGIH TLV (TWA)	ACGIH STEL
2-butoxy ethanol	50 ppm	N.a.	20 ppm	N.a.
acrylic copolymer	N.a.	N.a.	N.a.	N.a.
calcium stearate dispersion aqueous	N.a.	N.a.	N.a.	N.a.
dispersion aqueous polyuretane alifatic	N.a.	N.a.	N.a.	N.a.
water	N.a.	N.a.	N.a.	N.a.

3 - Hazards Identification

Product's effects:

Effects harmful to human health:

It can produce irritation of the mouth and throat. It may cause gastrointestinal irritation, headaches, weakness, dizziness, feeling faint and nausea and loss of concience.

Severe irritation, tearing, redness and blurred vision

Prolonged contact causes dry skin, cracks, irritation and dermatitis.

Respiratory and mucous irritation, membrane irritation, headaches, fainting, loss of coordination, feeling faint or loss of concience.

Main symptoms:

Faints, dizziness and headache in case of vapours.

Emergency overview:

S2 - Keep out of reach of children.

S15/16 - Keep far from the heat and the any spark source. Do not smoke.



Material Safety Data Sheet (MSDS)

Route of Entry:

Inhalation = Yes Skin = Yes Ingestion = Yes

CHEMICAL NAME	NTP	IARC	OSHA
2-butoxy ethanol	Not Known	Not Known	Not Known
acrylic copolymer	Not Known	Not Known	Not Known
calcium stearate dispersion aqueous	Not Known	Not Known	Not Known
dispersion aqueous polyuretane alifatic	Not Known	Not Known	Not Known
water	No	No	No

4 - First Aid Measures

Inhalation:

Move person to the fresh air. If breathing slows or stops, start artificial respiration and get medical attention immediately.

Contact with skin:

Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately.

Contact with eyes:

Flush them immediately with plenty of water at least 15 minutes and look for medical assistance

Ingestion:

Do not induce vomiting and contact a physician immediately.

Actions to be avoided:

Avoid the direct contact with the product on the skin.

Description of main symptoms and effects:

Nauseas, cough, shortness of breath, dehydration, dizziness, weakness, headaches drowsiness.

Protection for the first aid provider person:

Special First Aid Precautions

Notes for the physician:

Medical Information Contact

5 - Fire Fighting Measures

Appropriate extinguishing material:

Foam, Carbon Dioxide or Dry Chemical

Inappropriate extinguishing material:

Never use water in from of spray

Special methods:

Water may be ineffective in fighting fire. If water is used to cool containers to prevent pressure build-up, fog nozzles are preferred.

Protection for firemen:

Full protective equipment, including self-contained breathing apparatus is needed to protect firefighters from exposure to the coating's hazardous ingredients and hazardous decomposition products.

Flash Point Method:

TCC

Flash Point:

N.a.

6 - Accidental Release Measures

Measures for personal safety:

Use gloves and protective clothing.



Material Safety Data Sheet (MSDS)

Environmental measures:

Limit leakages with earth or sand

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7 - Handling and Storage

Handling:**Technical measures:****Prevention - worker's exposure:**

Handle according to the established safety standards. Wear appropriate safety equipment.

Explosion and fire prevention:

All the equipment must be grounded. Do not smoke. Do not handle the product near sources of heat and ignition. Take the measures against electrostatic charges.

Precautions for safe handling:

Wear appropriate safety equipment.

Guidelines for safe handling:

Avoid contact with the skin, mucous and eyes. Handle the product in well-ventilated area. Do not re-use the package. Do not handle in plastic recipient. Do not smoke in the area of product handling.

Storage:**Appropriate technical measures:**

All equipment must be grounded. Keep containers closed when not in use. Store in a clean and dry area. Store away from ignition sources. Store in a well-ventilated area. Avoid exposure to light. Avoid strong oxidizing agents.

Storage conditions:**Appropriate:**

Cover, clean, dry and well-ventilated areas.

Avoid:

Humid, uncovered and unventilated places. Avoid the presence of drains or other kinds of leaking in the warehouse.

Incompatible products and material:

Do not keep the product with explosive materials, flammable and/or toxic gases, oxidizing substances, corrosives, organic peroxide, materials of spontaneous fire and radioactive materials.

Safe materials for packing:**Recommended:**

Metallic packages internally recovered or plastic packages

Inadequate:

Metallic Packages.

8 - Explosion Control and Personal Protection

Engineering control measures:

Periodically monitor vapor concentration in the areas of use. Exhaust/ventilate workplaces.

Specific control parameters:



Material Safety Data Sheet (MSDS)

Recommended monitoring procedures:

Adopt domestic and/or international procedures. Regulatory norm n°15 of the Labor Ministry, labor hygiene norms by FUNDACENTRO, NIOSH procedures or ACGIH procedures.

Personal protective equipment:

Respiratory protection:

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during the application and handling.

Hand protection:

Chemical resistant protective gloves should be worn when handling this product. Check with glove manufacturer to determine proper glove type.

Eyes protection:

Splash-proof chemical goggles should be worn.

Skin and body protection:

Eyes bath and safety shower should be provided. Rubber apron should be worn.

Special precautions:

According to the work conditions, following the regulamented standards.

Hygiene measures:

Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and specially if contamination occurs.

9 - Physical and Chemical Properties

Physical state:

Liquid

Color:

Product with the final code 00 means transparent product. Others numbers mean coloured product.

Odour:

Characteristic

pH:

8.5 ± 0.5

Specific temperatures or temperature ranges in which there are changes in physical state:

Vapour density air = 1

Havier than air

Boiling Point:

100.00 °C 212.00 °F

VOC:

0.023 kg/l 0.192 pounds/US gallon

HAP:

0.000 maximum Kg HAP/Kg solids 0.000 Lbs Hap's/US gallon of solids

Density:

1.029 ± 0.020 g/cm³

Explosivity limits:

Not applicable.

Solubility:

Soluble in water.

10 - Stability and Reactivity



Material Safety Data Sheet (MSDS)

Instability:

The product remains stable in recommended storage conditions.

Hazardous reactions:

None one the product is stored and applied correctly.

Avoid:

High temperatures, contact with oxidizing agents and sources of heat and ignition.

Hazardous decomposition products:

Not available because this product is a mixture of chemical substances.

11 - Toxicological Information

Information according to different exposure media:**Acute Toxicity:**

Not specified by Brazilian laws. Whenever working with the product, it is advisable to observe the toxicity of the ingredients.

2-butoxy ethanol - LD50(oral, mice): 1.48 g/Kg

acrylic copolymer - LD50(oral, mice): > 5000 mg/Kg

Local effects:

According to the information described on item 3.

12 - Ecological Information

Environmental effects, behavior and impacts of the product:**Mobility:**

All the measures should be taken respecting the requirements of the Federal, State and local regulations.

Persistency / degradability:

Product partially non degradable.

Environmental impact:

Product soluble in water. Large volumes can contaminate the water table.

13 - Treatment and Disposal Considerations

Treatment and disposal methods:**Product:**

Dispose of it in accordance with Federal, State and local regulations. Incineration is the preferred method of disposal.

Product residues:

Residues which will not be used any more should be disposed of according to the Federal, State and local regulations.

Used package:

The package can not be re-used and must be disposed of appropriately.

14 - Transport Information

Domestic and International regulations:



Material Safety Data Sheet (MSDS)

Land:

UN: This product is not regulated by transport.
Risk Number: NA
Class Number: 0
Packaging Group: NA
Appropriate name for shipment: (Paint).

Sea:

IMDG/GGVSSea/UN: This product is not regulated by transport.
Risk Number: NA
Class Number: 0
Packaging Group: NA
Appropriate name for shipment: (Paint).

Air:

UN: This product is not regulated by transport.
Risk Number: NA
Class Number: 0
Packaging Group: NA
Appropriate name for shipment: (Paint).

15 - Regulatory Information

Information on risk and safety according to what is written on labels:

Product harmful to health. Not flammable liquid.

16 - Other Information

Bibliographical information:

The information and recommendations presented in this document are based on experiences and knowledges and the data informed refer to the material in question exclusively, can not be extended to other use, other material or to any other process. These information also can subject to change without prior notice.

Key:

R20/21/22 - Harmful if inhaled, skin contact or if swallowed
R37 - Cause irritation of breathing ways
Xn - Harmful
LD50 - Lethal dose for 50% of mice population.
N.a. - Not available
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit
STEL - Short-Term Exposure Limit
FUNDACENTRO - Fundação Jorge Duprat de Segurança e Medicina do Trabalho



Material Safety Data Sheet (MSDS)

1 - Chemical Product and Company Identification

Product : YO30E245 00 - HYDRO INT NEUTRAL 30 SHEEN

Company:

Renner Sayerlack S.A.

Address:

Av. Jordano Mendes, 1500

City:

Cajamar

Country:

Brazil

Phone Number:

5511 2117-9000 / 1 336 431-1157 - USA

Fax:

5511 2117-9081 / 1 336 431-1158 - USA

State:

Sao Paulo

ZIP Code:

07760-000

Emergency Phone:

001 800 255 3924

E-mail:

techsupport@renner-usa.com

HMIS INFORMATION

Health	2
Flammability	0
Reactivity	0
Personal Protection	H

H = gloves, safety glasses,
apron and mask

Hazard Index

4	Severe
3	Serious
2	Moderate
1	Slight
0	Minimal

2 - Composition Information on Ingredients

Product type: Prepared

Chemical Nature: WB ACRYLIC CLEAR

Ingredients or impurities which contribute to hazards:

CHEMICAL NAME	CAS NR	Concentration	Symbol	R Phrases	Vapour Pressure mmHg (°C/°F).
2-butoxy ethanol	111-76-2	1.10 - 2.04	Xn	R20/21/22;R37	0.6 mmHg 20.1 °C 68.2 °F
acrylic copolymer	N.a.	12.99 - 24.12	N.a.	N.a.	N.a.
dispersion aqueuos polyuretane alifatic	N.a.	2.94 - 5.46	N.a.	N.a.	N.a.
syntetic wax preparation	N.a.	1.05 - 1.95	N.a.	N.a.	N.a.
synthetic paraffin	68918-93-4	1.05 - 1.96	N.a.	N.a.	NIL .0 °C 32.1 °F
water	7732-18-5	49.35 - 91.65	N.a.	N.a.	N.a.

CHEMICAL NAME	OSHA PEL	OSHA STEL	ACGIH TLV (TWA)	ACGIH STEL
2-butoxy ethanol	50 ppm	N.a.	20 ppm	N.a.
acrylic copolymer	N.a.	N.a.	N.a.	N.a.
dispersion aqueuos polyuretane alifatic	N.a.	N.a.	N.a.	N.a.
syntetic wax preparation	N.a.	N.a.	N.a.	N.a.
synthetic paraffin	5 mg/m ³	N.a.	N.a.	N.a.
water	N.a.	N.a.	N.a.	N.a.

3 - Hazards Identification

Product's effects:

Effects harmful to human health:

It can produce irritation of the mouth and throat. It may cause gastrointestinal irritation, headaches, weakness, dizziness, feeling faint and nausea and loss of concience.

Severe irritation, tearing, redness and blurred vision

Prolonged contact causes dry skin, cracks, irritation and dermatitis.

Respiratory and mucous irritation, membrane irritation, headaches, fainting, loss of coordination, feeling faint or loss of concience.

Main symptoms:

Faints, dizziness and headache in case of vapours.



Material Safety Data Sheet (MSDS)

Emergency overview:

S2 - Keep out of reach of children.

S15/16 - Keep far from the heat and the any spark source. Do not smoke.

Route of Entry:

Inalation = Yes Skin = Yes Ingestion = Yes

CHEMICAL NAME	NTP	IARC	OSHA
2-butoxy ethanol	Not Known	Not Known	Not Known
acrylic copolymer	Not Known	Not Known	Not Known
dispersion aqueuos polyuretane alifatic	Not Known	Not Known	Not Known
syntetic wax preparation	Not Known	Not Known	Not Known
synthetic paraffin	Not Known	Not Known	Yes
water	No	No	No

4 - First Aid Measures

Inhalation:

Move person to the fresh air. If breathing slows or stops, start artificial respiration and get medical attention immediately.

Contact with skin:

Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately.

Contact with eyes:

Flush them immediately with plenty of water at least 15 minutes and look for medical assistance

Ingestion:

Do not induce vomiting and contact a physician immediately.

Actions to be avoided:

Avoid the direct contact with the product on the skin.

Description of main symptoms and effects:

Nauseas, cough, shortness of breath, dehydration, dizziness, weakness, headaches drowsiness.

Protection for the first aid provider person:

Special First Aid Precautions

Notes for the physician:

Medical Information Contact

5 - Fire Fighting Measures

Appropriate extinguishing material:

Foam, Carbon Dioxide or Dry Chemical

Inappropriate extinguishing material:

Never use water in from of spray

Special methods:

Water may be ineffective in fighting fire. If water is used to cool containers to prevent pressure build-up, fog nozzles are preferred.

Protection for firemen:

Full protective equipment, including self-contained breathing apparatus is needed to protect firefighters from exposure to the coating's hazardous ingredients and hazardous decomposition products.

Flash Point Method:

TCC

Flash Point:

N.a.



Material Safety Data Sheet (MSDS)

6 - Accidental Release Measures

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7 - Handling and Storage

Handling:

Technical measures:

Prevention - worker's exposure:

Handle according to the established safety standards. Wear appropriate safety equipment.

Explosion and fire prevention:

All the equipment must be grounded. Do not smoke. Do not handle the product near sources of heat and ignition. Take the measures against electrostatic charges.

Precautions for safe handling:

Wear appropriate safety equipment.

Guidelines for safe handling:

Avoid contact with the skin, mucous and eyes. Handle the product in well-ventilated area. Do not re-use the package. Do not handle in plastic recipient. Do not smoke in the area of product handling.

Storage:

Appropriate technical measures:

All equipment must be grounded. Keep containers closed when not in use. Store in a clean and dry area. Store away from ignition sources. Store in a well-ventilated area. Avoid exposure to light. Avoid strong oxidizing agents.

Storage conditions:

Appropriate:

Cover, clean, dry and well-ventilated areas.

Avoid:

Humid, uncovered and unventilated places. Avoid the presence of drains or other kinds of leaking in the warehouse.

Incompatible products and material:

Do not keep the product with explosive materials, flammable and/or toxic gases, oxidizing substances, corrosives, organic peroxide, materials of spontaneous fire and radioactive materials.

Safe materials for packing:

Recommended:

Metallic packages internally recovered or plastic packages

Inadequate:

Metallic Packages.

8 - Explosion Control and Personal Protection



Material Safety Data Sheet (MSDS)

Engineering control measures:

Periodically monitor vapor concentration in the areas of use. Exhaust/ventilate workplaces.

Specific control parameters:**Recommended monitoring procedures:**

Adopt domestic and/or international procedures. Regulatory norm n°15 of the Labor Ministry, labor hygiene norms by FUNDACENTRO, NIOSH procedures or ACGIH procedures.

Personal protective equipment:**Respiratory protection:**

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during the application and handling.

Hand protection:

Chemical resistant protective gloves should be worn when handling this product. Check with glove manufacturer to determine proper glove type.

Eyes protection:

Splash-proof chemical goggles should be worn.

Skin and body protection:

Eyes bath and safety shower should be provided. Rubber apron should be worn.

Special precautions:

According to the work conditions, following the regulated standards.

Hygiene measures:

Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and specially if contamination occurs.

9 - Physical and Chemical Properties

Physical state:

Liquid

Color:

Product with the final code 00 means transparent product. Others numbers mean coloured product.

Odour:

Characteristic

pH:

8.5 ± 0.5

Specific temperatures or temperature ranges in which there are changes in physical state:**Vapour density air = 1**

Havier than air

Boiling Point:

100.00 °C 212.00 °F

VOC:

0.020 kg/l 0.167 pounds/US gallon

HAP:

0.000 maximum Kg HAP/Kg solids 0.000 Lbs Hap's/US gallon of solids

Density:

1.026 ± 0.020 g/cm³

Explosivity limits:

Not applicable.



Material Safety Data Sheet (MSDS)

Solubility:

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Instability:

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