SAFETY DATA SHEET

FR-120 Sealer Wax

Section 1. Identification		
GHS product identifier	: FR-120 Sealer Wax	
Code	: FR-120	
Other means of identification	: Not available.	
Product type	: Liquid.	
Identified uses		
Water Beading Agent.		
Supplier's details	: Renu Chem Inc. 572 Malloy Ct Corona Ca 92880 Tel: 951 736 8072 Toll Free: 800 721 5572 Fax: 951 344 0466 Email: jim@renucleaners.com Web site: www.renucleaners.com	
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 (24/7)	

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.





identification

Section 3. Composition/information on ingredients

Substance/mixture
Other means of

: Mixture

: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: FR-120

Ingredient name	%	CAS number
Isopropyl alcohol	1 - 15	67-63-0
2-Butoxyethanol	0.1 - 1	111-76-2

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 as hazardous to health or the environment 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	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact Ingestion	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.Wash out mouth with water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	symptoms
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Indication	of immediate	medical	attention	and	special	treatment	needed,	if necessary

- Notes to physician : Treat symptomatically.
- Specific treatments : No specific treatment.
- Protection of first-aiders : No special protection is required.

See toxicological information (Section 11)





Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: 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	: 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 co	ntainment and cleaning up	
Spill	: Stop leak if without risk. Move containers from spill area. 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. 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).
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. See also Section 8 for additional information on hygiene measures.



Section 7. Handling and storage

Conditions for safe storage,	, : Store in accordance with local regulations. Store in original container protected from
including any	direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
incompatibilities	(see Section 10) and food and drink. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isopropyl alcohol	ACGIH TLV (United States, 4/2014).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 1225 mg/m ³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m³ 10 hours.
	TWA: 400 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 980 mg/m ³ 8 hours.
	TWA: 400 ppm 8 hours.
2-Butoxyethanol	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013). Absorbed through skin.
	TWA: 24 mg/m³ 10 hours.
	TWA: 5 ppm 10 hours.
	OSHA PEL (United States, 2/2013). Absorbed through skin.
	TWA: 240 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measure	<u>s</u>	
Hygiene measures	÷	Wash hands, forearms and face thoroughly after handling chemical products, before

Hygiene measures	eating, smoking and using the lavatory and at the end of the working period. 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: safety glasses with side-shields.
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.
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.
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.





Section 8. Exposure controls/personal protection

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid. [Thin.]
Color	4	Pink.
Odor	4	Berry.
Odor threshold	1	Not available.
рН	4	Not available.
Melting point	1	Not available.
Boiling point	1	Not available.
Flash point	1	Closed cup: 325°C (617°F) [Pensky-Martens.]
Evaporation rate	4	Not available.
Flammability (solid, gas)	4	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	Not available.
Vapor density	1	Not available.
Relative density	1	Not available.
Solubility	1	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Thin Bodied

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	: No specific data.
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.



Respiratory protection



Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	-
2-Butoxyethanol	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	450 ppm 220 mg/kg 250 mg/kg	4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
White mineral oil (petroleum) Isopropyl alcohol 2-Butoxyethanol	- None. -	- 3 3	-	A4 A4 A3	-	- - -

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Isopropyl alcohol	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

Skin contact

There is no data available.

Information on the likely routes of exposure	1	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects		
Eve contact		No known significant effects or critical hazards

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.

- : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.





Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
<u>Long term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health effe	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	18518.5 mg/kg
Dermal	22000 mg/kg
Inhalation (vapors)	1100 mg/L

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute LC50 1400000 to 1950000 µg/L Marine water Acute LC50 1400000 µg/L	Crustaceans - Crangon crangon Fish - Gambusia affinis	48 hours 96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/L Fresh water Acute LC50 1000 mg/L Marine water	Daphnia - Daphnia magna Crustaceans - Chaetogammarus marinus - Young	48 hours 48 hours
	Acute LC50 1250000 µg/L Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

ogP ow	BCF	Potential
)5 31		low low
<u> </u>	Fow	-

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.





Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 : Not listed (b) Hazardous Air Pollutants (HAPs)



Section 15. Regulatory information

Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%		Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
Isopropyl alcohol	1 - 15	Yes.	-	No.	Yes.	No.
2-Butoxyethanol	0.1 - 1	No.		No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements			1 - 15 0.1 - 1
Supplier notification			1 - 15 0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: Isopropyl alcohol; 2-Butoxyethanol
New York	: None of the components are listed.
New Jersey	: The following components are listed: White mineral oil (petroleum); Isopropyl alcohol; 2-Butoxyethanol
Pennsylvania	: The following components are listed: Isopropyl alcohol; 2-Butoxyethanol
<u>California Prop. 65</u>	
No products were found.	

Section 16. Other information

History

Date of issue mm/dd/yyyy	: 10/15/2014	
Version	: 1	
Revised Section(s)	: Not applicable.	
Prepared by	: KMK Regulatory Services Inc	



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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 73/78 = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
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