Safety Data Sheet

SECTION 1. GHS PRODUCT IDENTIFIER

1.1. Name of the Product: Fiebing's Resolene
Chemical family: Polymer

1.2. Other means of identification: #1633 Black, #1644 Brown

1.3: Recommended use of the product and restrictions on use: Leather coating for a gloss finish, stain repellent.

1.4. Details of the supplier of the safety data sheet

Manufacturer: Fiebing Company, Inc.
516 South Second Street
Milwaukee WI - 53204
Emergency contact: CHEMTREC
1-800-424-9300 (US/Canada)
+01 703-527-3887 (International)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification / risks

According to classification criteria of GHS Part 2 for Flammable Liquids: **Flam Liq. 4**
According to classification criteria of GHS Part 3 for Acute Toxicity: **Not classified**
Based on generic cut-off values of GHS 1.5.3.1 for carcinogenicity: **Not Classified**
According to classification criteria GHS 3.2.3.3 for skin: **Not classified**
According to classification criteria GHS 3.3.2.9 for eyes: **Eye irritant 2B**
According to classification criteria 4.1.3.5.5.2 for aquatic environment: **Not classified**

2.2. Label elements

Pictogram:	None
Signal Word:	WARNING
Hazard Code:	H227 Flam Liq. 4 H320 Eye Irritant 2B
Hazard statements:	Combustible liquid Causes eye irritation
Precaution:	P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children
Prevention:	P280: Wear protective gloves / eye protection P 264: Wash hands thoroughly after handling
Response:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage:	P 405 Keep store locked up
Disposal:	P501 Dispose of contents and containers in accordance with all local, Regional, national and international regulations.
Additional Hazards:	Not applicable.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Ingredient	CAS#	EINECS#	REACH Registration Number	Class	Wt%
Poly(methyl methacrylate-co-ethyl acrylate)	9010-88-2		Exempt as a polymer	Category 2B Eye irritant H 320 (2B)	20.0 – 25.0
2 - propanol	67-63-0	200-661-7	Not available	Flam Liq 2, H225 Eye irritant 2A, H319 STOT SE 3 H336	3.0 – 3.5
Water	7732-18-5		None	None	75.0 – 80.0

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove the victim (move/carry) from the exposure area to fresh air and keep warm and quiet. Place an unconscious person in the recovery position, loosen tight parts of clothes; control and maintain potency of the airways. Give oxygen in the case of breathing disorders; if not breathing, use artificial ventilation. In the case of loss of consciousness, respiratory disorders or persisting symptoms obtain medical aid immediately.

Skin contact: Immediately remove contaminated/soaked clothes and shoes. Thoroughly wash contaminated skin with soapy water or mild detergent, and then rinse with water. Consult a doctor if irritation symptoms appear and persist.

NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources.

Eye contact: Flush the contaminated eyes with running water, remove contact lenses (if worn) and continue flushing for approx. 15 minutes. When flushing, keep the eyelids wide open and move the eyeball. Consult a physician immediately.

NOTE: Do not use a stream of water which is too strong, it may damage the cornea.

Swallowing: Obtain medical aid immediately. DO NOT INDUCE VOMITING – INCREASED ASPIRATION RISK. In the case when spontaneous vomiting occurs, keep the victim leaning forward, with her/his face directed to the ground. If the victim is conscious, let her/him drink approx. 200 ml of liquid paraffin. Do not give milk, fat or alcohol.

4.2. Most important symptoms and effects, both acute and delayed: Not determined.

4.3. Indication of any immediate medical attention and special treatment needed: Do not induce vomiting and do not administer anything orally to an unconscious person. Show the material safety data sheet or the label/container to the medical staff. A person providing first aid in the area where vapor/fog concentration is unknown should be equipped with the appropriate respiratory protection.

Indications for a doctor: symptomatical treatment.

SECTION 5. PROCEEDING IN CASE OF FIRE

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, dry powder, foam; water spray or water fog.

Unsuitable extinguishing media: water jet.

5.2. Special hazards arising from the substance or mixture

In the fire environment smokes containing carbon oxides and other unidentified thermal decomposition products of higher hydrocarbons are formed. Avoid breathing products being released in the fire environment - they may be hazardous for health.

5.3. Advice for firefighters

Proceed in accordance with procedures applicable for extinguishing chemical fire. In the case of fire involving great amounts of the product, remove all bystanders not participating in action; call emergency brigades and the Fire Brigade. Cool the containers exposed to fire or high temperature with water spray from a safe distance, if possible and remove them from the endangered area. Prevent the wastewater after fire extinguishing from penetrating sewage and water tanks. Remove wastewater and residue after firefighting in accordance with valid regulations. People participating in the fire-extinguishing action should be properly trained, equipped with a full protective clothing and a self-containing breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use individual protection measures – see section 8 of the Safety Data Sheet. Limit the access of bystanders to the endangered area until proper cleaning operations are finished. In the case of great leakage isolate the endangered area. Ensure that breakdown and its results are eliminated by a properly trained staff only. Avoid contact with the eyes, skin and clothes. Do not inhale vapors or mist. If release occurred in closed area, ensure adequate ventilation.
NOTE: Spilled oils can make surfaces slippery. Remove ignition sources, extinguish open fire, do not smoke.

6.2. Environmental precautions

If it is possible and safe, stop or limit product release. Limit spreading of the great leakages by embanking the area. Prevent the product from penetrating drains, waters or soil. Notify respective authorities (occupational safety and hygiene, emergency brigades, environmental brigades and organs of administration).

6.3. Methods and material for containment and cleaning up

Cover up small spillage with non-flammable, neutral absorbent material (sand, soil, diatomic earth, vermiculite) and collect in an appropriate, closed, labelled waste bin. Clean the contaminated area with water with detergent, and then rinse with water. Pump off large amounts of liquid. Dispose of according to the applicable regulations. If necessary, obtain help from specialist companies dealing with waste transport and utilization in order to remove the product/absorbent material contaminated with the product.

6.4. Reference to other sections: See also sections 8 and 13 of the Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Intoxication prevention: Prevent formation of vapor/fog concentration exceeding the acceptable occupational exposure limits. Provide effective ventilation. Avoid contact with the eyes, skin and clothes. Avoid vapor and fog inhalation. Keep unused containers tightly closed.
Essential hygiene rules should be observed: do not eat, drink or smoke during work, wash hands with soapy water after work/after break in work. Do not use contaminated clothing; immediately remove contaminated clothing and wash before reuse. NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources. Use individual protection measures in accordance with the information contained in section 8 of the Safety Data Sheet.

Fire and explosion prevention: Do not use open fire, do not smoke, eliminate other ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed and properly labelled containers, in a cool, well ventilated place with a non-absorbing ground. The product may be stored in storage tanks in accordance with applicable regulations. Store far from heat sources, protect from direct sunlight. Protect against contamination and water accumulation. Keep away from strong oxidizers.

7.3. Specific end use(s): None.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION EQUIPMENT

8.1. Control parameters

USA:

Ingredient	OSHA- PEL	ACGIH-TLV	ACGIH	NIOSH-REL	NIOSH
	TWA	**TWA**	**STEL**	**TWA**	**STEL**
Poly(methyl methacrylate-co-ethyl acrylate)	Particulates Total dust: 15 mg/m3 Respirable dust: 5 mg/m3	None estab	None estab	None estab	None estab
The following values applies to substances which may evolve during thermal decomposition: - Methyl methacrylate - Ethyl acrylate	100 ppm (410 mg/m3) None established	50 ppm (205 mg/m3) None established	100 ppm (410 mg/m3)	No data	No data
2-propanol	400 ppm (980 mg/m^3) TWA	400 ppm (980 mg/m^3) TWA	500 ppm (1,225 mg/m^3) STEL		

EUROPE:
Workplace Exposure Limits (WELs) for 2-propanol:
Long term exposure limit: 400 ppm (999 mg/m3)
Short term exposure limit: 500 ppm (1250 mg/m3)

8.2. Exposure controls

Appropriate engineering controls:
General ventilation and/or local fume hood in order to maintain hazardous agent concentration in air below acceptable limits. Local fume hood is preferred, since it enables emission control at source and prevents spreading throughout the working area.

Eye or face protection:
Tight safety eyeglasses (goggles) in the case of prolonged exposure or the risk of liquid splashing to the eye. It is recommended to equip the workplace with a water shower to flush eyes.

Skin protection:
Wear impermeable, oil resistant gloves (e.g. perbutane, viton, butyl rubber). Glove material should be selected with consideration to the breakthrough time, permeability rate and degradation. It is recommended to change gloves regularly and replace them immediately if any signs of wear or damage (tearing, puncture) or changes in appearance (color, flexibility, shape) occur. Wear protective apron or protective suit made of coated, oil-resistant, anti-slippery shoes.

Respiratory protection:
Not required under normal conditions of use. In the case of exceeding the acceptable limits or inadequate ventilation use the approved respirator equipped with a suitable filter or filter-absorber. For activities in the circumstances, in which the mask does not provide adequate protection, use self-contained breathing apparatus.

Thermal hazards:
Not applicable

Environmental exposure controls:
Consider using precautionary measures in order to protect the area around storage tanks.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance: White liquid
b) Odor: Lightly fragranced
c) Odor threshold: No data available
d) pH: 9 - 10 @ 20 Deg.C
e) Melting/solidification temperature range : Not applicable
f) Boiling temperature range: > 90 Deg.C
g) Flash point: 61 Deg.C
h) Evaporation rate : No data available
i) Flammability (solid, gas): Not Flammable
j) Upper/lower flammability limit or upper/lower explosion limit: Not applicable
k) Vapor pressure: No data
l) Vapor density: No data
m) Specific gravity: 0.99 – 1.01 at 20°C
n) Solubility: Readily dispersible in water
o) Distribution coefficient n-octanol/ water: No data available
p) Self-ignition point : Product is not self-igniting
q) Decomposition temperature : No data available
r) Viscosity: No data
s) Explosive properties: Not applicable
t) Oxidizing properties: Not applicable
u) Freezing point: < 0 Deg.C **(Important: THIS PRODUCT WILL BE RUINED IF FROZEN)**

9.2. Other information

Surface tension: No data
Total VOC: 0.29 Lbs/Gal (35 g/L)

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

The substance is not reactive.

10.2. Chemical stability

The substance is stable under normal ambient conditions, as well as under the expected temperature and under the expected pressure at storage and at handling.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid:

Do not freeze. Avoid high temperature.

10.5. Incompatible materials

Strong oxidizers

10.6. Hazardous decomposition products

None known. Hazardous combustion products – see section 5 of the Safety Data Sheet.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Ingredient	LD 50	LC 50
Poly(methyl methacrylate-co-ethyl acrylate)	>5000 mg/kg (rat) oral	No data available
2-propanol	5840 mg/kg 12870 mg/kg (rabbit) dermal	73 mg/l 4 H (rat)
Water	Not applicable	Not applicable

Skin corrosion/irritation:
Not classified as a skin irritant
Serious eye damage/irritation:
Irritating to eyes.
Respiratory or skin sensitization:
Classification criteria have not been met based on the available data.
Germ cell mutagenicity:
Classification criteria have not been met based on the available data.
Carcinogenicity: The product has not been classified as carcinogenic by IARC, NTP or OSHA.
Reproductive toxicity:
None classified.
STOT – single exposure:
Irritating effect observed for eye. May cause some temporary stomach disorders such as nausea.
STOT – repeated exposure:
Classification criteria have not been met based on the available data.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity: Not classified as toxic to aquatic environment.
12.2. Persistence and degradability: Partially biodegradable in water. Partially biodegradable in the soil under anaerobic conditions.
12.3. Bioaccumulative potential: The product has low potential for bioaccumulation.
12.4. Mobility in soil: The product is predicted to have low mobility in soil.
12.5. Results of PBT and vPvB assessment: According to Annex XIII, the substance does not meet PBT or vPvB criteria.
12.6. Other adverse effects: No further relevant information available.
Sediment: Toxicity test on sediment microorganisms: none (test scientifically unjustifiable)
Land environment:
Toxicity test on invertebrates: none (test scientifically unjustifiable)
Toxicity test on plants: none (test scientifically unjustifiable)
Toxicity test on birds: none (test scientifically unjustifiable)

SECTION 13. HANDLING OF WASTES

13.1. Waste treatment methods

Waste code: Wastes not otherwise specified.
NOTE: Since waste code is assigned based on the source of origin, the end user should define the obtained wastes and assign a proper code, taking into consideration specific conditions of use, in accordance with applicable regulations. Soaked clothes, papers or other organic materials should be collected and utilized in an controlled way. Do not dispose to sewer. Avoid contamination of surface and ground waters. Consider reuse. Waste product should be recovered or utilized at professional, approved furnaces or waste recycling/neutralization facilities, in accordance with applicable regulations. Recovery / recycling / utilization of package wastes should be performed according to the applicable regulations.
NOTE: Only completely emptied and cleaned packages may be returned for recycling. Use services of authorized companies.

SECTION 14. TRANSPORT INFORMATION

EU
ADR (Road transport): The product is not a subject to the requirements of ADR as per special provisions Chapter 3.3 (144).
RID (Rail transport): Not regulated

US
DOT: Not regulated

IMDG: Not regulated
IATA: Not regulated
14.1. UN number Not applicable
14.2. UN Proper shipping name Not applicable
14.3. Transport hazard class(es Not applicable
14.4. Packing group Not applicable
14.5. Environmental hazards Not applicable
14.6. Special precautions for users: PROTECT FROM FREEZING.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15. REGULATORY INFORMATION

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

This Safety Data Sheet classification and labeling have been determined according to Regulations: (EC) No. 1907/2006(REACH), 1272/2008(CLP) and OSHA final rule 77 Fed.Reg.17574.
Australia AICS: All components are listed.
Canada DSL: All components are listed. Classification procedure was followed in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by Controlled Products Regulations.
Japan ENCS Substance Inventory: All components are listed.
China IECSC Substance Inventory: All components are listed.
Philippines PICCS: All ingredients are listed.
South Korean Existing Chemical Inventory (KECI): All ingredients are listed.

USA: Various Federal and State Regulatory bodies as follows
TLV established by ACGIH: All substances are listed.
TSCA: In compliance
SARA Title III (USA):
Section 302: None listed
Section 304: None listed
Section 313: Isopropanol
CARB VOC compliance (USA): Compliant to the 15% VOC rule for liquids and creams.

This product has been checked for country-specific published classifications according to **GHS:**

Australia GHS Classifications: No published information available.
European Union GHS Classifications: No published information available.
Indonesia GHS Classifications: No published information available.
Japan GHS Classifications: No published information available.
Korea GHS Classifications (SV): No published information available.
New Zealand GHS Classifications: No published information available.
South Africa GHS Classifications: No published information available.
Taiwan GHS Classifications: No published information available.

NFPA:	Health:	1 (Slight)
	Fire:	2
	Reactivity:	0 (Minimal)

SECTION 16. OTHER INFORMATION

Date of preparation: Nov 30, 2014
Version: 1.0
Revision date: 5.13.2015

Revised changes: None

Classification	**Classification procedure**
None classified	GHS classification criteria

Relevant H and P phrases:

P101 If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P280: Wear protective gloves / eye protection
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up
P501 Dispose of contents/container to an approved facility.

Abbreviations and acronyms in the Safety Data Sheet

TLV-TWA Threshold Limit Value
TLV-STEL Threshold Limit Value, Short Term Exposure Limit
TLV-C Ceiling exposure limit
vPvB very Persistent, very Bioaccumulative (substance)
PBT Persistent, bioaccumulative, and toxic (substance)
PNEC Predicted No Effect Concentration
DN(M)EL Derived No Effect Level
LD_{50} Dose that will kill 50% of the test animals
LC_{50} Concentration that will kill 50% of the test animals
EC_x Concentration at which x% inhibition of growth or growth rate is observed
LOEC Lowest Observed Effect Concentration
NOEL No Observed Effect Concentration
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADR Agreement on Dangerous Goods by Road
IMDG International Maritime Transport of Dangerous Goods
IATA International Air Transport Association

References:

Legal regulations quoted in sections 2 – 15 of the Safety Data Sheet.
Chemical safety assessment report for the substance.

Advice on training for employees:

Employees who use the product should be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.

This MSDS is not a quality certificate for the product. All data presented in this sheet are to be taken only as a help in safe handling in transport, distribution, use and storage. Persons handling the product should be informed about risks and precautionary measures. Information in the Safety Data Sheet relates to the above mentioned product and its specified uses only. They may be obsolete or insufficient for this product used in conjunction with other materials or in different applications than those specified in the Safety Data Sheet. The user is obliged to follow all applicable standards and regulations and is also responsible for inappropriate use of information contained in this sheet or for an inappropriate use of the product. In the case of special applications evaluate exposure and develop the appropriate procedure and training programs in order to ensure safety at work.