

PAGE #:1 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date :11/23/15
DOCUMENT #: F/RPI/QC 7.7.3-02	PRODUCT NAME: Bio-Safe NA		RPI ITEM NO: 111198

SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME: Bio-Safe NA
 RPI CATALOG #: 111198
 SUPPLIER'S NAME: Research Products International Corp.
 SUPPLIERS ADDRESS: 410 N Business Center Drive Mount Prospect, IL 60056
 EMERGENCY CONTACT: 1-800-424-9300
 OTHER INFORMATION: 847-635-7330

SECTION 2 - HAZARDS IDENTIFICATION

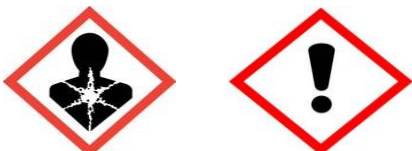
2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H304	Aspiration hazard	Category 1
H315	Skin corrosion/irritation	Category 2
H320	Serious Eye Damage/ Eye Irritation	Category 2B

2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

Pictogram



Signal word: Danger

Hazard statement(s)

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H320	Causes Eye Irritation.

Prevention, Response, Storage and Disposal Precautionary Statement(s)

P264	Wash skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304	Do NOT induce vomiting.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see. on this label).

PAGE #:2 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date :11/23/15
DOCUMENT #: F/RPI/QC 7.7.3-02	PRODUCT NAME: Bio-Safe NA		RPI ITEM NO: 111198

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EINECS Number	%age
Benzene, C10-16 Alkyl Derivs	68648-87-3	272-008-4	Q.S
Scintillation Flours	N/A	N/A	<1.0%

SECTION 4 - FIRST-AID MEASURES

4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture: No data available.

5.3 Precautions for fire-fighters: Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

5.4 Further information: No data available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

PAGE #:3 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date :11/23/15
DOCUMENT #: F/RPI/QC 7.7.3-02	PRODUCT NAME: Bio-Safe NA		RPI ITEM NO: 111198

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up: Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections: For required PPE see section 8. For disposal see section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling: Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place. Store at room temperature.

7.3 Specific end use(s): Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

- i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Bluish Tint Liquid	Vapor Pressure	< 0.5 mm Hg
Odor	Mild Odor	Specific Gravity	0.83

PAGE #:4 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date :11/23/15
DOCUMENT #: F/RPI/QC 7.7.3-02	PRODUCT NAME: Bio-Safe NA		RPI ITEM NO: 111198

Odor Threshold	No Data Available	Relative Density	No Data Available
pH	No Data Available	Water Solubility	Insoluble
Melting / Freezing Point	No Data Available	Partition Coefficient	No Data Available
Initial Boiling Point Range	278 to 306 °C	Auto-Ignition Temperature	229 to 280°C
Flash Point (Closed Cup)	143.4 to 145.5°C	Decomposition Temperature	No Data Available
Evaporation Rate	No Data Available	Viscosity	No Data Available
Flammability (Solid, Gas)	No Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability Or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Hazardous Decomposition Products: No data available.
Conditions to avoid: No data available.
Incompatibilities: No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Dermal	LD50 Oral
Benzene, C10-16 Alkyl Derivs	>10200 mg/kg (Rabbit)	17000 mg/kg (Rat)

Reproductive Toxicity

Component	Test	Species	Fertility	Developmental effects
Benzene, C10-16 Alkyl Derivs	OECD 416 Two Generation Reproduction Toxicity Study	Rat - Male, Female	Positive	Positive

Potential Chronic Health Effects

Component	Test	End Point	Species	Result
Benzene, C10-16 Alkyl Derivs	OECD 416 Two Generation Reproduction Toxicity Study	Sub-chronic NOAEL Oral	Rat - Male, Female	50 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Eco Toxicity

Component	End Point	Exposure	Species	Result
Benzene, C10-16 Alkyl Derivs	Acute EC50	48 Hours	Daphnia	0.08 mg/l
	Acute LC50	96 Hours	Fish	>1000 mg/l
	Acute LC50	96 Hours	Fish	>1000 mg/l
	Acute LC50	96 Hours	Fish	>1000 mg/l

PAGE #:5 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date :11/23/15
DOCUMENT #: F/RPI/QC 7.7.3-02	PRODUCT NAME: Bio-Safe NA		RPI ITEM NO: 111198

Persistence and degradability

Component	Test	Period	Result
Benzene, C10-16 Alkyl Derivs	No official guidelines	42 days	96.3 to 99 %
	OECD 301F Ready Biodegradability Manometric Respirometry Test	28 days	64%

Bioaccumulative potential

Component	Log Pow	BCF	Potential
Benzene, C10-16 Alkyl Derivs	6.4 to 7.9	35	Low

Mobility in soil: Soil/water partition coefficient (KOC):22000

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Chronic Toxicity: There are no known carcinogenic chemicals in this product

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

DOT	TDG	IATA	IMDG/IMO
Not regulated	Not regulated	Not regulated	Not regulated

SECTION 15 - REGULATORY INFORMATION

USA FEDERAL REGULATION

SARA 311/312 HAZARDOUS CATEGORIZATION

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release Of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

TSCA 12(b)/ OSHA/ CERCLA: Not Applicable

SARA 313: Not Applicable

Clean Water Act/Clean Air Act: Not Applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals.

HMIS Rating

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	*	1	0

PAGE #: 6 OF 6	PRODUCT SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.: 1 REV Date : 11/23/15
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NFPA Rating

Health hazard	Fire Hazard	Reactivity Hazard
1	1	0

US DEPARTMENT OF TRANSPORTATION

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
No	No	No

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS complies with the requirements of Regulation (EC).

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.