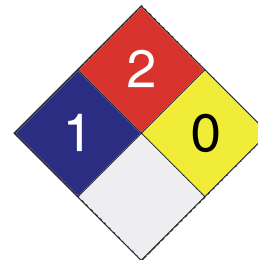


1. Product and Company Identification

Product Name SABA Primer Marine
CAS # Mixture
Product use Primer
Manufacturer SABA Dinxperlo BV
 Industriestraat 3
 P.O. Box 3
 NL - 7090 AA Dinxperlo, NL
 Phone: + 31 315 658999
 Emergency Phone: 1-800-535-5053 (24/7)
 International Phone: 1-352-323-3500 (Collect)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 1
Flammability	2
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview WARNING
 Combustible liquid.
 MAY CAUSE EYE AND SKIN IRRITATION.
 Contains a potential teratogen.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alkanes, C14-17, chloro	85535-85-9	5 - 10
Butyl propionate	590-01-2	40 - 70
Toluene	108-88-3	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.
General advice	Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Combustible by WHMIS/OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. Keep this material away from food, drink and animal feed.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
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Alkanes, C14-17, chloro	ACGIH-TLV Not established OSHA-PEL Not established
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Butyl propionate	ACGIH-TLV Not established OSHA-PEL Not established
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Toluene	ACGIH-TLV TWA: 20 ppm Skin: 50 ppm OSHA-PEL TWA: 200 ppm Ceiling: 300 ppm
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Engineering controls Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Personal protective equipment

Eye / face protection	Safety glasses
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid breathing mists or vapors.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Liquid
Color	Black or Colorless to Light yellow
Form	Fluid
Odor	weak, Characteristic
Odor threshold	Not available
Physical state	Liquid
pH	Not applicable
Melting point	Undetermined
Freezing point	Not available
Boiling point	145 °C (293.00 °F)
Flash point	40 °C (104.00 °F) Closed Cup
Evaporation rate	0.45 (BuAc = 1)
Flammability limits in air, lower, % by volume	1.2
Flammability limits in air, upper, % by volume	7.6
Vapor pressure	4 hPa @ 20°C
Vapor density	4.49 (Air = 1)
Specific gravity	1.02 g/cm ³
Octanol/water coefficient	Not available
Solubility (H₂O)	Not miscible or difficult to mix
Auto-ignition temperature	425 °C (797.00 °F)

VOC (Weight %)	70.7673
Viscosity	85 mPa.s
Percent volatile	71 % (approximately)

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other materials or with water. Avoid high temperatures.
Incompatible materials	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alkanes, C14-17, chloro	Not available
Butyl propionate	Not available
Toluene	12.5 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Alkanes, C14-17, chloro	4000 mg/kg rat
Butyl propionate	5000 mg/kg rat
Toluene	636 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	See below.
ACGIH - Threshold Limit Values - Carcinogens	
Toluene	108-88-3 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 3 (Not Classifiable)	
Toluene	108-88-3 Monograph 71 [1999], Monograph 47 [1989]
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

Toluene 108-88-3 96 Hr EC50 Selenastrum capricornutum: >433 mg/L

Ecotoxicity - Freshwater Fish Species Data

Alkanes, C14-17, chloro 85535-85-9 48 Hr LC50 Leuciscus idus: >500 mg/L [static]
Toluene 108-88-3 96 Hr LC50 Pimephales promelas: 15.22-19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas:12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss:5.89-7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss:14.1-17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss:5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus:11.0-15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes:54 mg/L [static]; 96 Hr LC50 Poecilia reticulata:28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata:50.87-70.

Ecotoxicity - Microtox Data

Toluene 108-88-3 30 Min EC50 Photobacterium phosphoreum: 19.7 mg/L

Ecotoxicity - Water Flea Data

Toluene 108-88-3 48 Hr EC50 water flea: 11.3 mg/L; 48 Hr EC50 water flea: 310 mg/L; 48 Hr EC50 Daphnia magna: 11.3 mg/L

Environmental effects Not available
Aquatic toxicity Not available
Persistence / degradability Not available
Bioaccumulation / accumulation Not available
Partition coefficient Not available
Mobility in environmental media Not available
Chemical fate information Not available
Other adverse effects Not available

13. Disposal Considerations

Waste codes Not available
Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products Not available
Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name Adhesives
Hazard class 3
UN number 1133
Packing group III
Additional information:
Special provisions B1, B52, IB3, T2, TP1
Packaging exceptions 150



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	ADHESIVES
Hazard class	3
UN number	1133
Packing group	III



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Butyl propionate	590-01-2	1 %
Toluene	108-88-3	1 %

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Toluene	108-88-3	1000 Lb final RQ; 454 kg final RQ
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Toluene	108-88-3	1.0 % de minimis concentration
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U.S. - CWA (Clean Water Act) - Hazardous Substances

Toluene	108-88-3	Present
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U.S. - CWA (Clean Water Act) - Priority Pollutants

Toluene	108-88-3	Present
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U.S. - CWA (Clean Water Act) - Toxic Pollutants

Toluene	108-88-3	Present
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Benzene, methyl-:	1000.0000
Acetic acid ethyl ester:	5000.0000
Toluene diisocyanate:	100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

WHMIS status Controlled

WHMIS classification Class B - Division 3 - Combustible Liquid, Class D - Division 2A, 2B

WHMIS labeling



State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Toluene 108-88-3 Present

U.S. - California - Proposition 65 - Developmental Toxicity

Toluene 108-88-3 developmental toxicity, initial date 1/1/91

U.S. - Illinois - Toxic Air Contaminants

Toluene 108-88-3 Present

U.S. - Louisiana - Reportable Quantity List for Pollutants

Toluene 108-88-3 100 Lb RQ (unauthorized emissions based on total mass emitted into the atmosphere - see regulatory text for applicable parishes. The combined emission of highly reactive volatile organic compounds (acetaldehyde, butenes, ethylene, propylene, toluene, xylene, and/or isoprene) shall be totaled to determine if a RQ has been exceeded)

U.S. - Massachusetts - Right To Know List

Butyl propionate 590-01-2 Present

Toluene 108-88-3 Present

U.S. - Michigan - Critical Materials List

Toluene 108-88-3 100 Lb Annual usage threshold

U.S. - Minnesota - Hazardous Substance List

Toluene 108-88-3 Skin

U.S. - New Jersey - Right to Know Hazardous Substance List

Butyl propionate 590-01-2 sn 0295

Toluene 108-88-3 sn 1866

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Toluene 108-88-3 1000 Lb RQ (air); 1 lb RQ (land/water)

U.S. - North Carolina - Control of Toxic Air Pollutants

Toluene 108-88-3 4.7 mg/m3 (chronic toxicants); 56 mg/m3 (acute irritants)

U.S. - Pennsylvania - RTK (Right to Know) List

Butyl propionate 590-01-2 Present

Toluene 108-88-3 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Toluene 108-88-3 Toxic (skin); Flammable (skin)

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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