
SECTION 1. IDENTIFICATION

Product identifier

: GREEN PEARL

Product number

: SMR-091

Recommended use of the chemical and restrictions on use

Recommended use : Coloring agent

Details of the supplier of the safety data sheet

Company name	SpeedoKote LLC.	
Address	5565 N. Webster St. Dayton, OH 45414 United States	
Telephone	TECH SUPPORT	937-280-0091
	SALES	937-280-0091
	PHONE	937-280-0091
Website	www.speedokote.com	
E-mail	info@speedokote.com	
Contact person	Safety Department	
Emergency phone number	MAIN OFFICE: M-F	937-280-0091
	7:45am-4:30pm	
	EMERGENCY 24 Hrs.	800-424-9300 ChemTrec

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Mica coated with:
titanium dioxide
tin oxide
auxiliaries

Hazardous ingredients

Chemical name	Concentration (% w/w)	CAS-No.
2-butoxyethanol	>= 10 - < 20	111-76-2

SECTION 4. FIRST AID MEASURES

If inhaled : Fresh air.
In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact : Rinse out with plenty of water.
Call in ophthalmologist.
Remove contact lenses.
If swallowed : immediately make victim drink water (two glasses at most).
Consult a physician.
Most important symptoms and effects, both acute and delayed : irritant effects

Notes to physician : No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water
Foam
Carbon dioxide (CO2)
Dry powder

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards during fire fighting : Mixture with combustible ingredients.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

Further information : Suppress (knock down) gases/vapors/mists with a water spray jet.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Avoid breathing vapors and keep upwind.

Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Well closed full protective clothing (coat and pants) including helmet.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:
Avoid inhalation of dusts.
Avoid substance contact.
Ensure adequate ventilation.
Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders:
Protective equipment see section 8.
Indications about waste treatment see section 13.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up dry. Dispose of properly. Clean up affected area.
Avoid generation of dusts.

SECTION 7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling : Wash thoroughly after handling.
Observe label precautions.

Conditions for safe storage, including any incompatibilities

Storage conditions : Tightly closed.
Dry.

Risks from decomposition products: see section 10

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m ³	NIOSH REL
		TWA	50 ppm 240 mg/m ³	OSHA Z-1
		TWA	25 ppm 120 mg/m ³	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-Butoxyethanol, 2-butoxyethanol, 2-butoksyetanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI

Engineering measures : Technical measures and appropriate working operations

should be given priority over the use of personal protective equipment.
See section 7.

Personal protective equipment

- Respiratory protection : required when dusts are generated.
- Hand protection
Additional 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.
- Eye protection : Safety glasses
- Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : powder
- Form : solid
- Color : green
- Odor : No information available.
Odor Threshold : No information available.
- pH : No information available.
- Melting point : No information available.
- Boiling point : No information available.
- Flash point : No information available.
- Evaporation rate : No information available.
- Flammability (solid, gas) : No information available.
- Lower explosion limit : No information available.

Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	at 68 °F (20 °C) practically insoluble
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: See below
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: no information available
Conditions to avoid	: no information available
Incompatible materials	: no information available
Hazardous decomposition products	: in the event of fire: See section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product

Carcinogenicity

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Group 3: Not classifiable as to its carcinogenicity to humans

2-butoxyethanol 111-76-2

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Likely route of exposure

Inhalation, Eye contact, Skin contact, Ingestion

Acute oral toxicity

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute toxicity estimate: > 5,000 mg/kg

Calculation method

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute toxicity estimate: 111 mg/l; 4 h ; vapor

Calculation method

Acute dermal toxicity

Acute toxicity estimate: > 5,000 mg/kg

Calculation method

Skin irritation

Mixture causes skin irritation.

Eye irritation

Mixture causes serious eye irritation.

Experience with human exposure

Other Relevant Toxicity Information:

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Other dangerous properties can not be excluded., Handle in accordance with good industrial hygiene and safety practice.

Ingredients

2-butoxyethanol (111-76-2):

Acute oral toxicity

LD50 Rat: 1,746 mg/kg
OECD Test Guideline 401

Acute inhalation toxicity

Acute toxicity estimate: 11.1 mg/l; vapor
Expert judgment

Skin irritation

Rabbit
Result: Skin irritation
(ECHA)

Eye irritation

Rabbit
Result: irritating
OECD Test Guideline 405

Sensitization

Guinea pig
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Repeated dose toxicity

Rat
male
Oral
91 d
NOAEL: < 69 mg/kg
OECD Test Guideline 408

Rabbit
male and female

Dermal
90 d
NOAEL: > 150 mg/kg
OECD Test Guideline 411

Germ cell mutagenicity

Genotoxicity in vivo
Micronucleus test
Mouse
Result: negative
Method: OECD Test Guideline 474

Genotoxicity in vitro
Ames test
Salmonella typhimurium
Result: negative
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

Mutagenicity (mammal cell test): chromosome aberration.
Result: negative
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473

Mutagenicity (mammal cell test):
Result: negative
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476

Teratogenicity
Application Route: Oral
Rat
Method: OECD Test Guideline 414
Did not show teratogenic effects in animal experiments.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity **Product**

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

Additional ecological information
Discharge into the environment must be avoided.

Ingredients

2-butoxyethanol (111-76-2):

Toxicity to fish
LC50 Oncorhynchus mykiss (rainbow trout): 1,474 mg/l; 96 h
OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
static test EC50 Daphnia magna (Water flea): 1,800 mg/l; 48 h
OECD Test Guideline 202

Toxicity to algae
static test EC50 Pseudokirchneriella subcapitata (green algae): 911 mg/l; 72 h
OECD Test Guideline 201

Toxicity to bacteria
EC0 Pseudomonas putida: 700 mg/l; 16 h (Lit.)

Toxicity to fish (Chronic toxicity)
NOEC Danio rerio (zebra fish): > 100 mg/l; 21 d
(ECHA)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
semi-static test NOEC Daphnia magna (Water flea): 100 mg/l; 21 d
OECD Test Guideline 211

Biodegradability
95 %; 28 d
OECD Test Guideline 301E
Readily biodegradable.

Partition coefficient: n-octanol/water
log Pow: 0.81 (25 °C)
Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Waste : Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:
2-butoxyethanol 111-76-2

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489):

2-butoxyethanol 111-76-2

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

2-butoxyethanol 111-76-2

Pennsylvania Right To Know

2-butoxyethanol 111-76-2

New Jersey Right To Know

2-butoxyethanol 111-76-2

California Prop. 65



WARNING: This product can expose you to one or more chemicals which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov titanium(IV) oxide 13463-67-7

The ingredients of this product are reported in the following inventories:

DSL : This product or its components are listed on or compliant with the DSL.

TSCA : All components of the product are listed in the TSCA-inventory.

SECTION 16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.