



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name	ROSCO OFF BROADWAY BRIGHT GOLD
Product Code	RF5383
Alternate Product Code	XY5178
Product Class	Water thinned paint
Color	Gold
Recommended use	Paint
Restrictions on use	No information available

Roscolab Limited

Blanchard Works
Kangley Bridge Road
Sydenham
London SE26 5AQ
Phone: +44 (0) 20 8659 2300 (Monday - Friday, 9 am to 5 pm GMT)
Email: info.emea@rosco.com

Rosco Laboratories Inc.

52 Harbor View Avenue
Stamford, CT 06902, USA
Phone: (203)-708-8900
www.rosco.com

Emergency Telephone

CHEMTREC: +1-703-741-5970
CHEMTREC (United Kingdom Local Number): +44-870-8200418

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 2 - (H411)
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2.2. Label elements

Product Identifier

**Signal word**

Warning

Hazard statements

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to industrial incineration plant

2.3. Other hazards**General Hazards**

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	EINECS/ELINCS No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Copper	231-159-6	7440-50-8	>=5 - <10	Not available	Not available
Propylene glycol	200-338-0	57-55-6	>=1 - <5	Not available	01-2119456809-23-02 24
Zinc	231-175-3	7440-66-6	>=1 - <5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Pyr. Sol. 1 (H250) Water-react. 1 (H260)	Not available
2-Butoxyethanol	203-905-0	111-76-2	>=1 - <5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) STOT SE 3 (H335)	Not available

Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy-, branched	68412-54-4	Listed

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Description of first aid measures

General Advice	No hazards which require special first aid measures.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects	None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes To Physician	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising From The Chemical	Closed containers may rupture if exposed to fire or extreme heat.
Sensitivity to static discharge	No
Sensitivity to mechanical impact	No

5.3. Advice for firefighters

Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective suit.
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Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Other Information	Observe all relevant local and international regulations.

6.2. Environmental precautions

Environmental precautions	Prevent spreading of vapors through sewers, ventilation systems and confined areas.
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6.3. Methods and material for containment and cleaning up

Methods for Containment	Absorb with inert material and place in suitable container for disposal.
Methods for Cleaning Up	Clean contaminated surface thoroughly.

6.4. Reference to other sections

Other information	See Section 12 for additional information.
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Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene Measures	Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed. Keep out of the reach of children.
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7.3. Specific end use(s)

Specific Uses	Architectural coating. Apply as directed. Refer to product label / literature for specific instructions.
Risk Management Methods (RMM)	Not Applicable.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical name	European Union	Belgium	Bulgaria	Cyprus	France	Ireland
Copper 7440-50-8	-	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1.0 mg/m ³	-	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ STEL: 0.6 mg/m ³
Propylene glycol 57-55-6	-	-	-	-	-	TWA: 10 mg/m ³ TWA: 150 ppm TWA: 470 mg/m ³

							STEL: 1410 mg/m ³ STEL: 30 mg/m ³ STEL: 450 ppm
2-Butoxyethanol 111-76-2	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ *	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ skin	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ S*	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ S*	TWA: 10 ppm TWA: 49 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ *	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ Sk*	
Chemical name	Germany	Greece	Hungary	Iceland	Italy	Latvia	
Copper 7440-50-8	-	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	STEL: 4 mg/m ³ STEL: 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	1.0 mg/m ³ TWA 0.1 mg/m ³ TWA	-	TWA: 0.5 mg/m ³ STEL: 1 mg/m ³	
Propylene glycol 57-55-6	-	-	-	-	-	TWA: 7 mg/m ³	
2-Butoxyethanol 111-76-2	TWA: 10 ppm TWA: 49 mg/m ³ H*	TWA: 25 ppm TWA: 120 mg/m ³ S*	STEL: 246 mg/m ³ TWA: 98 mg/m ³ potential for cutaneous absorption	20 ppm TWA 100 mg/m ³ TWA 25 ppm TWA 50 ppm STEL 246 mg/m ³ STEL Skin	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ pelle*	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ S*	
Chemical name	Lithuania	Netherlands	Poland	Romania	Spain	Sweden	United Kingdom
Copper 7440-50-8	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.5 mg/m ³ STEL: 0.2 mg/m ³ STEL: 1.5 mg/m ³	TWA: 0.1 mg/m ³	TLV: 0.01 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³
Propylene glycol 57-55-6	TWA: 7 mg/m ³	-	TWA: 100 mg/m ³	-	-	-	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³
2-Butoxyethanol 111-76-2	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 20 ppm STEL: 100 mg/m ³ S*	TWA: 100 mg/m ³ STEL: 246 mg/m ³ H*	STEL: 200 mg/m ³ TWA: 98 mg/m ³	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ S*	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 245 mg/m ³ via dérmica*	TLV: 10 ppm TLV: 50 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ skin	TWA: 25 ppm TWA: 123 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ Sk*

8.2. Exposure controls

Occupational exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

Eye Protection

Safety glasses with side-shields.

Skin Protection

Lightweight protective clothing.

Hand protection

Impervious gloves.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	liquid
Odor	little or no odor
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
Density (g/L)	1114 - 1162	None known
Relative Density	1.11 - 1.16	
pH	No information available	None known
Viscosity (cps)	No information available	None known
Solubility(ies)	No information available	None known
Water solubility	No information available	None known
Evaporation Rate	No information available	None known
Vapor pressure	No information available	None known
Vapor density	No information available	None known
Wt. % Solids	30 - 40	None known
Vol. % Solids	20 - 30	None known
Wt. % Volatiles	60 - 70	None known
Vol. % Volatiles	70 - 80	None known
Boiling Point (°C)	100	None known
Freezing Point (°C)	0	None known
Melting Point (°C)	No information available	None known
Pour Point	No information available	None known
Flash Point (°C)	Not applicable	None known
Flammability (solid, gas)	No information available	None known
Upper flammability limit:	No information available	None known
Lower flammability limit:	No information available	None known
Autoignition Temperature (°C)	No information available	None known
Decomposition Temperature (°C)	No information available	None known
Partition coefficient	No information available	None known
Explosive properties	No information available	None known
Oxidizing Properties	No information available	None known

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Not Applicable.

10.2. Chemical stability

Chemical Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal conditions of use.

10.4. Conditions to avoid

Conditions to avoid Prevent from freezing.

10.5. Incompatible materials

Incompatible Materials

No materials to be especially mentioned.

10.6. Hazardous decomposition products**Hazardous Decomposition Products**

None under normal conditions of use.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Product Information****Inhalation**

There is no data available for this product.

Eye contact

There is no data available for this product.

Skin contact

There is no data available for this product.

Ingestion

There is no data available for this product.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal)	75,555.90 mg/kg
ATEmix (inhalation-vapor)	823.40 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	
Zinc 7440-66-6	= 630 mg/kg (Rat)		
2-Butoxyethanol 111-76-2	= 1300 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.9 mg/L (Rat) 3H

Skin corrosion/irritation

No information available.

Eye damage/irritation

No information available.

Sensitization

No sensitizing effects known.

Mutagenic Effects

No information available.

Carcinogenic effects

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.

Reproductive Effects

No information available.

Developmental Effects

No information available.

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Neurological Effects	No information available.
Target organ effects	No information available.
Symptoms	No information available.
Aspiration Hazard	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Crustacea
Copper 7440-50-8	EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata) EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =0.112mg/L (96h, Poecilia reticulata) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =1.25mg/L (96h, Lepomis macrochirus)	EC50: =0.03mg/L (48h, Daphnia magna)
Propylene glycol 57-55-6	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50 41 - 47 mL/L Oncorhynchus mykiss (96 h) LC50 = 710 mg/L Pimephales promelas (96 h) LC50 = 51600 mg/L Oncorhynchus mykiss (96 h) LC50 = 51400 mg/L Pimephales promelas (96 h)	EC50 > 1000 mg/L (48 h) EC50 > 10000 mg/L (24 h)
Zinc 7440-66-6	EC50: 0.09 - 0.125mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.11 - 0.271mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 0.211 - 0.269mg/L (96h, Pimephales promelas) LC50: 2.16 - 3.05mg/L (96h, Pimephales promelas) LC50: =0.24mg/L (96h, Oncorhynchus mykiss) LC50: =0.41 mg/L (96h, Oncorhynchus mykiss) LC50: =0.45mg/L (96h, Cyprinus carpio) LC50: =0.59mg/L (96h, Oncorhynchus mykiss) LC50: =2.66mg/L (96h, Pimephales promelas) LC50: =3.5mg/L (96h, Lepomis macrochirus) LC50: =30mg/L (96h, Cyprinus carpio) LC50: =7.8mg/L (96h, Cyprinus carpio)	EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)
2-Butoxyethanol 111-76-2		LC50: =1490mg/L (96h, Lepomis macrochirus) LC50: =2950mg/L (96h, Lepomis macrochirus)	EC50: 1698 - 1940mg/L (24h, Daphnia magna) EC50: >1000mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence / Degradability	No information available.
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12.3. Bioaccumulative potential**Bioaccumulation**

There is no data for this product.

Chemical name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81

12.4. Mobility in soil**Mobility in soil**

No information available.

Mobility in Environmental Media

No information available.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

No information available.

Chemical name	PBT and vPvB assessment
Copper 7440-50-8	The substance is not PBT / vPvB PBT assessment does not apply
Propylene glycol 57-55-6	The substance is not PBT / vPvB PBT assessment does not apply
Zinc 7440-66-6	The substance is not PBT / vPvB PBT assessment does not apply
2-Butoxyethanol 111-76-2	The substance is not PBT / vPvB

12.6. Other adverse effects**Other adverse effects**

No information available

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from Residues/Unused Products**

Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

EWC waste disposal No

No information available

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION**IMDG****Proper Shipping Name**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.**Transport hazard class(es)**

9

UN number	UN3082
Packing Group	III
EmS No.	F-A, S-F
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Zinc), 9, III, Marine Pollutant

RID

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
UN-No.	UN3082
Packing group	III
Classification Code	M6
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Zinc), 9, III
Labels	9

ADR

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
UN number	UN3082
Packing group	III
Classification Code	M6
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Zinc), 9, III
Labels	9

ADN

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
UN-No.	UN3082
Packing group	III
Classification Code	M6
Special Provisions	274, 335, 375, 601
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Zinc), 9, III
Hazard label(s)	9
Equipment Requirements	PP

IATA

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Zinc), 9, III

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Propylene glycol 57-55-6	RG 84
Zinc 7440-66-6	RG 61
2-Butoxyethanol 111-76-2	RG 84

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

AICS	No - Not all of the components are listed.
DSL: Canada	Yes - All components are listed or exempt.
EINECS: European Union	No - Not all of the components are listed.
ENCS	No - Not all of the components are listed.
IECSC	No - Not all of the components are listed.
KECL (Annex 1)	No - Not all of the components are listed.
PICCS	No - Not all of the components are listed.
TSCA: United States	Yes - All components are listed or exempt.

Legend

AICS - Australian Inventory of Chemical Substances
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

15.2. Chemical safety assessment**Chemical Safety Report**

No information available

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under section 3**

H250 - Catches fire spontaneously if exposed to air
H260 - In contact with water releases flammable gases which may ignite spontaneously
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Classification procedure:

Expert judgment and weight of evidence determination

Key literature references and sources for data	Data from internal and external sources
Prepared By	Product Stewardship Department Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT 06902, USA Phone: (203)-708-8900
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End of Safety Data Sheet