# FARO

### SAFETY DATA SHEET

#### 1. Identification

Product identifier SABER PAINT RT General Purpose Retractable Paint Marker - 59100 Series Yellow, White,

Red, Blue, Black, Green

Other means of identification No.

None.

Recommended use

Marking Paint.

**Recommended restrictions** 

Not suitable for food contact applications.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier FARO INTERNATIONAL, INC.

151 Kalmus Drive, M6

Costa Mesa, CA 92626 USA

**Telephone** 1-714-432-8780 **Fax** 1-714-436-1081

Contact person Product Responsibility Manager

E-mail info@farotools.com

**Emergency telephone** 

mo@iarotoois.com

number

For Chemical Emergency ONLY, call Verisk 3E at:

1-800-451-4386, 1-760-602-8703

Access code 16916

#### 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye

protection/face protection.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

**Mixtures** 

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CAS number	%	
64-17-5	35 - 55	
13463-67-7	< 35	
14059-33-7	< 20	
84632-65-5	< 10	
107-98-2	1 - 5	
67-63-0	1 - 5	
109-60-4	1 - 5	
147-14-8	< 5	
1328-53-6	< 5	
31837-42-0	< 5	
1333-86-4	< 5	
6358-31-2	< 5	
57455-37-5	< 1	
7779-90-0	< 1	
	64-17-5 13463-67-7 14059-33-7 84632-65-5 107-98-2 67-63-0 109-60-4 147-14-8 1328-53-6 31837-42-0 1333-86-4 6358-31-2 57455-37-5	

#### **Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Skin contact Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### **Environmental precautions**

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) **Form** Components **Type** Value PEL Carbon Black (CAS 3.5 mg/m3 1333-86-4) Ethanol (CAS 64-17-5) PEL 1900 mg/m3 1000 ppm PEL n-propyl acetate (CAS 840 mg/m3 109-60-4) 200 ppm **PEL** Propan-2-ol (CAS 67-63-0) 980 mg/m3 400 ppm Titanium Dioxide (CAS PEL 15 mg/m3 Total dust. 13463-67-7) US. OSHA Table Z-3 (29 CFR 1910.1000) Components **Type** Value **Form** Titanium Dioxide (CAS **TWA** 5 mg/m3 Respirable fraction. 13463-67-7) 15 mg/m3 Total dust. 50 mppcf Total dust. 15 mppcf Respirable fraction. **US. ACGIH Threshold Limit Values Form** Components **Type** Value 1-Methoxy-2-propanol (CAS STEL 100 ppm 107-98-2)

Components	Туре	Value	Form
	TWA	50 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
n-propyl acetate (CAS 109-60-4)	STEL	150 ppm	
	TWA	100 ppm	
Propan-2-ol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Chen Components		Value	Form
	Туре		
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	540 mg/m3	
		150 ppm	
	TWA	360 mg/m3	
		100 ppm	
Bismuth vanadium oxide (CAS 14059-33-7)	Ceiling	0.05 mg/m3	Dust.
C.I. Pigment Blue 15:3, 15:4 (CAS 147-14-8)	TWA	0.1 mg/m3	Fume.
C.I. Pigment Green 7 (CAS 1328-53-6)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
n-propyl acetate (CAS 109-60-4)	STEL	1050 mg/m3	
		250 ppm	
	TWA	840 mg/m3	
		200 ppm	
Propan-2-ol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
ogical limit values			
ACGIH Biological Exposure Indice			
Components Value	Determinant	Specimen Samplir	ng Time

Propan-2-ol (CAS 67-63-0) 40 mg/l Acetone Urine

#### **Exposure guidelines**

US - California OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2)

Can be absorbed through the skin.

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

<sup>\* -</sup> For sampling details, please see the source document.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Nitrile, butyl rubber or neoprene gloves are

recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Skin protection

Wear appropriate chemical resistant clothing. Other

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

> limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator

appropriate for airborne exposure at the point of use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene

When using do not smoke. Always observe good personal hygiene measures, such as washing considerations after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state Liquid. **Form** 

Color Various colors.

Odor Alcohol. Odor threshold Not available. рH Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

55.0 - 59.0 °F (12.8 - 15.0 °C) Setaflash Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 

**Viscosity** 17 - 19 Seconds. #2 Zahn Cup

Viscosity temperature 77 °F (25 °C)

Other information

7.43 - 10.17 lb/gal Density Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

VOC 4.36 - 4.74 lb/gal (as supplied)

> 63.64 - 71.48 % v/v 41.75 - 64.06 % w/w

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#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid Conditions to avoid

temperatures exceeding the flash point. Protect against direct sunlight. Contact with incompatible

materials.

Strong acids. Strong oxidizing agents. Chlorine. Isocyanates. Nitrates. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Organic compounds.

#### 11. Toxicological information

#### Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing.

#### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Toxicity data for the components in the product are available and have been used in the

evaluation of the product.

**Product Species Test Results** 

SABER PAINT RT General Purpose Retractable Paint Marker - 59100 Series Yellow, White, Red, Blue, Black, Green (CAS Mixture)

Acute Oral

**ATE** > 5000 mg/kg

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Due to the form of the product, exposure to the potentially carcinogenic components is not Carcinogenicity

expected.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Propan-2-ol (CAS 67-63-0) 3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

#### NTP Report on Carcinogens

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

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SDS US

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol (CAS 64-17-5) -0.31
Propan-2-ol (CAS 67-63-0) 0.05
n-propyl acetate (CAS 109-60-4) 1.23

Mobility in soil No data available.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

UN number UN1263 UN proper shipping name Paint

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards

Marine pollutant No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** 149, B52, IB2, T4, TP1, TP8, TP28

Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

**IATA** 

UN number UN1263 UN proper shipping name Paint

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards No
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1263
UN proper shipping name PAINT

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards

Marine pollutant No F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

**k according to** Not applicable.

the IBC Code

#### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

C.I. Pigment Blue 15:3, 15:4 (CAS 147-14-8)

C.I. Pigment Green 7 (CAS 1328-53-6)

n-propyl acetate (CAS 109-60-4)

Listed.

Listed.

Propan-2-ol (CAS 67-63-0)

Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**Toxic Substances Control** All components of the mixture on the TSCA 8(b) inventory are designated "active".

Act (TSCA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Bismuth vanadium oxide	14059-33-7	< 20	
Propan-2-ol	67-63-0	1 - 5	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

n-propyl acetate (CAS 109-60-4)

Propan-2-ol (CAS 67-63-0)

Low priority

Low priority

Low priority

#### **US** state regulations

#### US. Massachusetts RTK - Substance List

1-Methoxy-2-propanol (CAS 107-98-2) Carbon Black (CAS 1333-86-4)

Ethanol (CAS 64-17-5)

n-propyl acetate (CAS 109-60-4) Propan-2-ol (CAS 67-63-0)

Titanium Dioxide (CAS 13463-67-7)

#### US. New Jersey Worker and Community Right-to-Know Act

1-Methoxy-2-propanol (CAS 107-98-2) Bismuth vanadium oxide (CAS 14059-33-7) C.I. Pigment Blue 15:3, 15:4 (CAS 147-14-8) C.I. Pigment Green 7 (CAS 1328-53-6)

Carbon Black (CAS 1333-86-4)

Ethanol (CAS 64-17-5)

n-propyl acetate (CAS 109-60-4) Propan-2-ol (CAS 67-63-0) Titanium Dioxide (CAS 13463-67-7) Zinc Phosphate (CAS 7779-90-0)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1-Methoxy-2-propanol (CAS 107-98-2) C.I. Pigment Green 7 (CAS 1328-53-6)

Carbon Black (CAS 1333-86-4)

Ethanol (CAS 64-17-5)

n-propyl acetate (CAS 109-60-4) Propan-2-ol (CAS 67-63-0) Titanium Dioxide (CAS 13463-67-7) Zinc Phosphate (CAS 7779-90-0)

#### **US. Rhode Island RTK**

1-Methoxy-2-propanol (CAS 107-98-2) Carbon Black (CAS 1333-86-4)

Ethanol (CAS 64-17-5)

n-propyl acetate (CAS 109-60-4) Propan-2-ol (CAS 67-63-0) Titanium Dioxide (CAS 13463-67-7)

# 16. Other information, including date of preparation or last revision

Issue date 21-March-2019

**Revision date** Version # 01

Health: 2 **HMIS®** ratings

Flammability: 3 Physical hazard: 0

**Disclaimer** FARO INTERNATIONAL, INC. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

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