



Material Safety Data Sheet

Date of issue 24 September 2013
Version 19

1. Product and company identification

Product name : RED SHADE BLUE TINT

Code : HU-10-RSB

Supplier : PPG Industries, Inc.

Pittsburgh, PA 15272

(412) 434-4515 (U.S.)

(514) 645-1320 (Canada)

01-800-00-21-400 (Mexico)

Technical Phone Number : (740) 363-9610 (DELAWARE, OH) 8:00 a.m. - 5:00 p.m. EST

2. Hazards identification

Emergency overview : WARNING!

COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation

: May be harmful if inhaled. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

: May be harmful if swallowed.

Skin

: No known significant effects or critical hazards.

Eyes

: Irritating to eyes.

Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

Medical conditions

: Pre-existing respiratory disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

exposure

aggravated by over-

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

Flammability of the product : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable

- : Use dry chemical, CO₂, water spray (fog) or foam.
- : Do not use water jet.
- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous combustion products

- : Decomposition products may include the following materials: carbon oxides, nitrogen oxides, metal oxide/oxides

Special protective equipment for fire-fighters

- : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

5 . Fire-fighting measures

Eye contact

- : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Skin contact

- : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Inhalation

- : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Ingestion

- : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Notes to physician

- : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

4 . First aid measures

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Name	CAS number	%
2-methoxy-1-methylethyl acetate	108-65-6	30 - 60
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	5 - 10
rosin	8050-09-7	0.1 - 1
2-methoxypropyl acetate	70657-70-4	0.1 - 1

3 . Composition/information on ingredients

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Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120F / 49C.

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

7. Handling and storage

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

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Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection : Safety glasses with side shields. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Consult local authorities for acceptable exposure limits.

A	= Acceptable Maximum Peak
ACGIH	= American Conference of Governmental Industrial Hygienists.
C	= Ceiling Limit
F	= Fume
IPEL	= Internal Permissible Exposure Limit
OSHA	= Occupational Safety and Health Administration.
R	= Respirable
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Key to abbreviations

S	= Potential skin absorption
SR	= Respiratory sensitization
SS	= Skin sensitization
STEL	= Short term Exposure limit values
TD	= Total dust
TLV	= Threshold Limit Value
TWA	= Time Weighted Average

Name	Result	ACGIH	OSHA	Ontario	Mexico	IPEL
2-methoxy-1-methylethyl acetate	TWA	Not established	Not established	50 ppm	Not established	50 ppm

8. Exposure controls/personal protection

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Developmental effects : Contains material which may cause developmental abnormalities, based on animal data.

Target organs : Contains material which causes damage to the following organs: brain, eyes, respiratory tract, central nervous system (CNS).

Conclusion/Summary : Not available.

Product/ingredient name	Result	Species	Dose	Exposure
2-methoxy-1-methylethyl acetate	LD50 Oral	Rat	8532 mg/kg	-
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper rosin	LD50 Oral	Rat	5.1 g/kg	-
2-methoxypropyl acetate	LD50 Oral	Rat	7600 mg/kg	-
	LD50 Dermal	Rabbit	8532 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LC50 Inhalation	Rat	<5320 ppm	4 hours

Acute toxicity

11 . Toxicological information

Stability : Stable under recommended storage and handling conditions (see Section 7).

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

10 . Stability and reactivity

Physical state : Liquid.

Flash point : Closed cup: 42.22°C (108°F)

Explosion limits : Lower: 1.5%

Color : Not available.

Odor : Not available.

pH : Not available.

Boiling/condensation point : >37.78°C (>100°F)

Melting/freezing point : Not available.

Specific gravity : 1.04

Density (lbs / gal) : 8.68

Vapor pressure : 0.48 kPa (3.6 mm Hg) [room temperature]

Vapor density : Not available.

Volatility : 61% (v/v), 56.2% (w/w)

Evaporation rate : 0.36 (butyl acetate = 1)

Partition coefficient: n-octanol/water : Not available.

% Solid. (w/w) : 43.8

9 . Physical and chemical properties

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Reportable quantity RQ : ERCLA: Hazardous substances.: copper: 5000 lbs. (2270 kg); 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper: No RQ is being assigned to the generic or broad class.;

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
DOT	1263	PAINT	3	III	<p>Reportable quantity</p> <p>16608 lbs / 7540 kg [1918.2 gal / 7261.1 L]</p> <p>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Remarks</p> <p>USA Only: Can be reclassified as Combustible Liquid. Non-Bulk highway shipments (Less than or Equal to 450Liters) can be shipped as non-regulated.</p>
IMDG	1263	PAINT	3	III	-
UN	1263	PAINT	3	III	-

14 . Transport information

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Disposal should be in accordance with applicable regional, national and local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

13 . Disposal considerations

Environmental effects : No known significant effects or critical hazards.

12 . Ecological information

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Hazardous Material Information System (U.S.A.)
 Health : 2 * Flammability : 2 Physical hazards : 0
 Health : 2 Flammability : 2 Instability : 0
 Date of previous issue : 8/13/2013

The customer is responsible for determining the PPE code for this material.
 National Fire Protection Association (U.S.A.)
 Health : 2 Flammability : 2 Instability : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDS under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

16. Other information

Classification
 Flammability : 2 Health : 2 Reactivity : 0

Canada
 WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico
 Classification
 Flammability : 2 Health : 2 Reactivity : 0

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
2-methoxy-1-methylethyl acetate	108-65-6	Y	N	Y	N	N
rosin	8050-09-7	Y	N	N	N	N
2-methoxypropyl acetate	70657-70-4	Y	Y	Y	N	N
Product as-supplied :		Y	Y	Y	N	N

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:
 copper: No RQ is being assigned to the generic or broad class.;
 ERCLA: Hazardous substances.: copper: 5000 lbs. (2270 kg); 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32
 SARA 302/304: No products were found.

U.S. Federal regulations
 United States
 Philippines inventory (PICCS) : At least one component is not listed.
 New Zealand (NZIoc) : At least one component is not listed.
 Korea inventory (KECI) : At least one component is not listed.
 Japan inventory (ENCS) : At least one component is not listed.
 Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.
 China inventory (IECSC) : All components are listed or exempted.
 Canada inventory (DSL) : At least one component is not listed in DSL but all such components are listed in NDLSL.
 Australia inventory (AICS) : All components are listed or exempted.
 United States inventory (TSCA 8b) : All components are listed or exempted.

15. Regulatory information

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The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Disclaimer

▲ Indicates information that has changed from previously issued version.

Organization that prepared : EHS the MSDS

16 . Other information

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