

# Safety Data Sheet

Date of issue: 10/03/2015 Revision date: 07/09/2018 Version: 1.6

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Name : OPACI-COAT®

Product code : OC/RC

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Coating

### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

ICD High Performance Coatings 7350 S. Union Ridge Parkway Ridgefield, WA 98642 United States of America

Tel: +1 (360) 546 2286 Fax: +1 (360) 546 2287

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UNITED STATES	ICD High Performance Coatings	7350 S. Union Ridge Parkway	: +1 (360) 546 2286
OF AMERICA		Ridgefield, WA 98642	

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# GHS Classification according to Regulation (EC) No. 1272/2008 [CLP]

H316 Skin irritation : Category 3 H320 Eye Irritation : Category 2A

Full text of H-phrases mentioned in this Section: see Section 16

## 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms :



Signal word : Warning

Hazard statements : Causes mild skin irritation

Causes serious eye irritation

Precautionary statements : **Prevention**:

Wash skin and face thoroughly after handling. Wear protective gloves and eye protection.

## Response:

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical attention.

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If eye irritation persists: Get medical attention.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

### **Substance**

Not applicable

### **Mixture**

### Hazardous ingredients:

No reportable quantities of hazardous materials present

## **SECTION 4: First aid measures**

### Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. In case of accident or if you feel unwell, seek medical advice (show the label where possible). When symptoms persist or in all

cases of doubt seek medical advice.

First-aid measures after inhalation Allow victim to breathe fresh air. Allow the victim to rest. Get medical attention

First-aid measures after skin contact Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

or rash occurs: Get medical advice/attention.

First-aid measures after eye contact 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.

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. First-aid measures after ingestion

## Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes skin irritation.

Causes eye irritation.

Suspected of damaging fertility or the unborn child.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. **Extinguishing media**

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media None known.

### Special hazards arising from the substance or mixture

Specific hazards during firefighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides. Silicon oxides. Formaldehyde.

## Advice for firefighters

Firefighting instructions Use extinguishing methods that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers

from fire area if it is safe to do so. Evacuate area. Protection during firefighting

: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

### **Environmental precautions**

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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### 6.3. Methods and material for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which regulations are applicable.

### 6.4. Reference to other sections

Sections 13 and 15 of this SDS provide information regarding certain local or national requirments.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Local/Total ventilation : Use only with adequate ventilation.

Precautions for safe handling : Avoid inhalation of vapor or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or

repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Wash Skin thoroughly after handling.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in properly labeled containers. Store in accordance with the particular national

regulations.

Incompatible materials : Strong oxidizing agents.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ingredients with workplace control parameters:

No reportable quantities of hazardous materials present

## 8.2. Exposure controls

Appropriate engineering controls : Processing may form hazardous compounds (see section 10). Ensure adequate ventilation,

especially in confined areas. Minimize workspace exposure concentrations.

Personal protective equipment : Protective clothing. Protective goggles or safety glasses. Gloves.

Hand protection : Wear protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : No personal respiratory protective equipment normally required.







Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : Various.
Odour : Slight.

Odour threshold : No data available

pH : 10 - 11

Relative evaporation rate (butylacetate=1) : No data available

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Melting point : No data available Freezing point : No data available

Boiling point :  $100 \,^{\circ}\text{C}$ Flash point :  $> 10.1 \,^{\circ}\text{C}$ 

Method: closed cup

No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) Non flammable Vapour pressure No data available No data available Relative vapour density at 20 °C Relative density : No data available Density 1.02 g/cm<sup>3</sup> Solubility No data available Log Pow No data available

Viscosity, kinematic : Various Explosive properties : Not explosive

Oxidising properties : This mixture is not classified as oxidizing.

Explosive limits : No data available

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not classified as a reactivity hazard.

### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidizing agents, strong acids

## 10.6. Hazardous decomposition products

Carbon oxides. Silicon oxides. Formaldehyde.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Skin contact. Ingestion. Eye contact.

Acute toxicity : Not classified. May be irritating to respiratory system, eyes and skin

Acute dermal toxicity : Acute toxicity estimate: >5000 mg/kg

Method: calculation method May cause skin irritation

Skin corrosion/irritation : May cause skin irritation
Serious eye damage/eye irritation : May cause eye irritation.

Skin sensitization : Not classified based on available information.

Respiratory sensitization : Not classified based on available information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

IngredientResultsRemarksDiethylamineNegative.Species: Rat

Exposure time: 104 weeks Application Route: Inhalation

Information taken from reference works and the literature.

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Titanium dioxide

IARC 2B Possiblly carcinogenic to humans.

Suspected of causing cancer. IARC has classified TIO2 as 2B Possibly carcinogenic to humans. However, the only evidence of carcinogenicity is in rats exposed to very high concentrations. Two major epidemiology studies among titanium dioxide workers in the US and in EUROPE could not demonstrate an elevated lung cancer risk.

Boffetta et. al. Mortality among workers employed in the titanium dioxide production industry in Europe. Cancer Causes Control. 2004 Sep;15(7):697-706. Fryzek et. al. A cohort mortality study among titanium dioxide manufacturing workers in the United States. J Occup Environ Med. 2003 Apr;45(4):400-9. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. IARC Monographs, Volume 93 (Summary)

Carbon black

IARC 2B Possibly carcinogenic to humans.

IARC monographs report that certain carbon blacks have been found to be carcinogenic to animals in laboratory experiments.

Cobalt Titanate Green

Spinel

Carcinogenic IARC 2B

IARC and the NTP consider nickel compounds to be carcinogenic to humans.

IARC has classified cobalt and cobalt compounds as possibly

carcinogenic to humans.

This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect

the properties of the component metals or oxides.

Iron oxide

Not carcinogenic IARC and NTP both contain listings for the underground hematite mining. These listings are for the occupational exposures associated with the mining process which includes radon, a known lung carcinogen. NIOSH in the Registry of Toxic Effects of Chemical Substances (RTECS) lists iron oxide as a suspected human carcinogen. However, the IARC reference to underground hematite mining is the source for this classification. Based on information currently availabe this material is not considered a carcinogen.

Cobalt Aluminate Blue

Spinel

IARC 2B Possibly carcinogenic to humans

IARC has classified cobalt and cobalt compounds as possibly

carcinogenic to humans.

This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.

Reproductive toxicity

Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated

exposure)

Repeated dose toxicity

: Not classified based on available information.

Not classified based on available information.

Not classified based on available information.

Not classified based on available data. Not classified based on available data. : Not classified based on available data.

Aspiration hazard Potential adverse human health effects and symptoms

**Further Information** 

No chronic effects are known from repeated exposure to iron oxide pigment. Prolonged inhalation (6 to 10 years) of iron oxide fumes has been reported to produce changes in lung xrays of exposed individuals. This condition, siderosis, is considered to be benign

pneumoconiosis that exhibits no adverse health effects. Siderosis has been observed among occupations such as arc welders where iron oxide fumes are present. To the best of our knowledge, this condition has not been observed after prolonged exposure to iron oxide pigment. There are no iron oxide fumes contained in this product and none should be generated under normal use.

# **SECTION 12: Ecological information**

12.1. **Toxicity** 

Acute aquatic toxicity : Not classified based on available data Chronic aquatic toxicity : Not classified based on available data

Persistence and degradability

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No data available

## 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Resource Conservation and Recovery Act

(RCRA)

This product has been evaluated for RCRA characteristics and does not meet the criteria of

hazardous waste if discarded in its purchased form. Dispose of in accordance with local regulations.

Waste from residues Contaminated packaging

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

If not otherwise specified: Dispose of as unused product.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not dangerous goods in terms of transport regulations

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

## 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

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## 14.5. Domestic regulation

**49 CFR** 

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethylamine)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171

Remarks : THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE SIZES WHERE THE

HAZARDOUS SUBSTANCE MEETS THE REPORTABLE QUANTITY

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

Marine pollutant

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EPCRA – Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity** 

	Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
	Diethylamine	109-89-7	100	15152
SARA 302/304		: No chemicals i Section 302.	n this material are subject to	the reporting requirements of SARA Title III,
SARA 311/312 H	azard Categories	: Chronic Health	Hazard	
SARA 313		REQUIREMEN AND REAUTH	ITS OF SECTION 313 OF TI ORIZATION ACT OF 1986 A	OR CHEMICALS SUBJECT TO THE REPORTING TLE III OF THE SUPERFUND AMENDMENTS AND 40 CFR PART 372. THIS INFORMATION ARE COPIED AND DISTRIBUTED FOR THIS
		100% Cobalt C	Compound	
		100% Nickel C	ompound	
		100% Zinc Cor	mpound	
		46% Antimony	Compound	

## 15.1.2. National regulations

## **US State Right To Know Regulations**

Ingredient	CAS No.		
Water	7732-18-5		
Dimethyl siloxy silsesquioxane	Not Assigned		
Silicon dioxide	7631-86-9		
Titanium dioxide	13463-67-7		
Carbon black	1333-86-4		
Cobalt aluminate blue spinel	1345-16-0*		
Cobalt titanate green spinel	68186-85-6*		

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Antimony nickel titanium oxide yellow

8007-18-9\*

### **Composition Comments**

: This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.

### California Prop. 65

WARNING! This product contains chemicals known in the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient	CAS No.	Remarks
Sulphuric acid	7664-93-9	
Titanium dioxide	13463-67-7	Titanium dioxide is listed as a carcinogen by the State of California under Proposition 65. This listing is a qualified listing which applies only to airborne, unbound, particles of respirable size and does not require warnings on products containing titanium dioxide such as plastics, paper, and paint.
Iron oxide	1309-37-1	
Quino[2,3-b]acridine-7,14-dione, 5,12-dihydro-	1047-16-1	

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

REACH : All ingredients (pre)registered or exempt.

TSCA : All chemical substances in this material are included on or exempted fro listing on the TSCA

Inventory of Chemical Substances.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or

are exempt from listing on the Canadian Domestic Substances List (DSL).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Internal technical data, data from raw material SDS's, and

OECD eChem Portal search results.

Other information : None.

Full text of H- phrases:

H315 Causes skin irritation
H319 Causes serious eye irritation

SDS EU\_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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