

# SAFETY DATA SHEET

Creation Date 06-Nov-2014

Revision Date 14-Aug-2014

**Revision Number 1** 

## 1. Identification

Product Name Shandon Rapid-Chrome Kwik Diff Solution 1 - Methanol Fixative

Cat No. : 9990700, 9990705

Synonyms Carbbinol; Methyl, Alcohol; Methyl hydroxide; Monohydroxymethane; Wood alcohol; Wood

naptha; Wood spirits; Columbian spirits

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270 Emergency Telephone Number Chemtrec US: (800) 424-9300

Chemtrec EU: 001 (202) 483-7616

# 2. Hazard(s) Identification

#### Ciassification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute oral toxicity

Acute dermal toxicity

Acute Inhalation Toxicity - Dusts and Mists

Specific target organ toxicity (single exposure)

Target Organs - Respiratory system, Central nervous system (CNS), Optic nerve.

Specific target organ toxicity - (repeated exposure)

Category 1

Category 1

Specific target organ toxicity - (repeated exposure)

Category 1

Target Organs - Bosninston exposure Skip Control treat (CI) Kidney Line - Black Control treat (CI) Kidney Li

Target Organs - Respiratory system, Skin, Gastrointestinal tract (GI), Kidney, Liver, spleen, Blood.

## Labei Eiements

## Signai Word

Danger

## **Hazard Statements**

Highly flammable liquid and vapor Toxic if swallowed Toxic in contact with skin Toxic if inhaled May cause respiratory irritation May cause drowsiness or dizziness Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

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

Keep cool

#### Response

IF exposed: Call a POISON CENTER or doctor/physician

#### Inhaiation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## Disposai

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

## Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Methyl alcohol	67-56-1	>99

## 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhaiation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Immediate medical attention is required.

ingestion Call a physician or Poison Control Center immediately. Do not induce vomiting.

Most important symptoms/effects Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media CO 2, dry chemical, dry sand, alcohol-resistant foam. Use water spray to cool unopened

containers.

455 °C / 851 °F

Unsuitable Extinguishing Media Water may be ineffective

Flash Point 12 °C / 53.6 °F
Method - No information available

Autoignition Temperature

**Expiosion Limits** 

**Upper** 31.00 vol % 6.0 vol %

Sensitivity to Mechanical impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemicai

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

#### **Hazardous Combustion Products**

Carbon monoxide (CO) Formaldehyde

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 3 Flammability instability Physical hazards N/A

## 6. Accidental release measures

Personal Precautions

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures

against static discharges. Do not get in eyes, on skin, or on clothing.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary Up measures against static discharges. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

Handiing

Use only under a chemical fume hood. Use explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

### Storage

Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat and sources of ignition.

# 8. Exposure controls / personal protection

#### Exposure Guideiines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH		
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m³ Skin TWA: 200 ppm TWA: 260 mg/m³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³		

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 310 mg/m³	TWA: 200 ppm STEL: 250 ppm Skin

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Use explosion-proof

electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

## Personai Protective Equipment

Eyelface Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical State

Appearance
Colorless
Odor
Alcohol-like
Odor Threshold
No informat

Odor ThresholdNo information availablepHNo information availableMeiting Point/Range-98 °C / -144.4 °F

Bolling Point/Range 64.7 °C / 148.5 °F @ 760 mmHg

Fiash Point12 °C / 53.6 °FEvaporation Rate5.2 (Ether = 1.0)Fiammability (solid,gas)No information available

Fiammability or expiosive limits

Upper Lower **Vapor Pressure Vapor Density Relative Density** Solubliity

Partition coefficient; n-octanoi/water **Autoignition Temperature Decomposition Temperature** 

Viscosity

Moiecular Formula **Moiecular Weight** 

31.00 vol % 6.0 vol % 128 hPa @ 20 °C 1.11 (Air = 1.0)0.791

Miscible with water No data available 455 °C / 851 °F No information available 0.55 cP at 20 °C

C H<sub>3</sub> OH 32.04

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability

Stable under normal conditions.

**Conditions to Avoid** 

Incompatible products. Heat, flames and sparks.

Incompatible Materials

Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, Strong bases,

Metals, Peroxides

Hazardous Decomposition Products Carbon monoxide (CO), Formaldehyde

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological Information

## **Acute Toxicity**

Component information

Component	LD50 Orai	LD50 Dermai	LC50 inhalation
Methyl alcohol	6200 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Toxicologically Synergistic	Carbon tetrachloride		

**Toxicologically Synergistic** 

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes and skin

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl alcohol	67-56-1	Not listed				

Mutagenic Effects

Mutagenic effects have occurred in experimental animals.

Reproductive Effects

Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** 

Developmental effects have occurred in experimental animals.

**Teratogenicity** 

Teratogenic effects have occurred in experimental animals.

STOT - single exposure

Respiratory system Central nervous system (CNS) Optic nerve

STOT - repeated exposure

Respiratory system Skin Gastrointestinal tract (GI) Kidney Liver spleen Blood

**Aspiration hazard** 

No information available

Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed

tiredness, nausea and vomiting No information available

**Endocrine Disruptor information** 

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

# 12. Ecological Information

#### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 mln EC50 = 40000 mg/L 15 mln EC50 = 43000 mg/L 5 mln	

Persistence and Degradability **Bioaccumulation/Accumulation**  No information available No information available.

## Mobility

Component	log Pow
Methyl alcohol	-0.74

## 13. Disposal considerations

Waste Disposai Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes		
Methyl alcohol - 67-56-1	U154			

## **14. Transport Information**

DOT

UN-No UN1230

**Proper Shipping Name METHANOL** 

**Hazard Class Packing Group** Ш

TDG

**UN-No** UN1230

**Proper Shipping Name METHANOL** 

**Hazard Class** 3 **Subsidiary Hazard Class** 6.1

**Packing Group** 

UN1230

**Proper Shipping Name METHANOL** 

**Hazard Class** 3 **Subsidiary Hazard Class** 6.1 II

**Packing Group** 

IMDG/IMO

UN-No UN1230 **Proper Shipping Name** METHANOL

**Hazard Class** Subsidiary Hazard Class 6.1 **Packing Group** Ш

# 15. Regulatory information

### International inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Methyl alcohol	Х	Х	- 3	200-659-6		14	Х	Х	Х	Х	Х

## Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the inventory Update Rule, i.e. Partial Updating of the TSCA inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federai Regulations

**TSCA 12(b)** 

Not applicable

**SARA 313** 

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	>99	1.0

## SARA 311/312 Hazardous Categorization

Acute Heaith Hazard	Yes
Chronic Heaith Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## **Ciean Water Act**

Not applicable

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depietors	Class 2 Ozone Depletors
Methyl alcohol	Х		

**OSHA** Occupational Safety and Health Administration Not applicable

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	
California Proposition 65	This product does not contain any Proposition 65 chem	icale

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methyl alcohol	67-56-1	Developmental		Developmental

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	Х	Х	X	X	X

## U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## U.S. Department of Homeiand Security

This product does not contain any DHS chemicals.

#### Other international Regulations

Mexico - Grade

Serious risk, Grade 3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** 

B2 Flammable liquid D2A Very toxic materials D1A Very toxic materials



## 16. Other Information

Prepared By

Regulatory Affairs

Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

Tel: (800) 522-7270

Creation Date Revision Date Print Date 06-Nov-2014 14-Aug-2014 14-Aug-2014

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Discialmer

The information provided on this 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS** 



# SAFETY DATA SHEET

Creation Date 06-Nov-2014

Revision Date 06-Nov-2014

**Revision Number 1** 

## 1. Identification

**Product Name** 

Shandon Rapid-Chrome Kwik Diff Solution 2 - Eosin-Y

Cat No. :

9990706, 9990700

**Synonyms** 

Eosin-Y

**Recommended Use** 

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

4481 Campus Drive Kalamazoo, MI 49008

Tel: (800) 522-7270

**Emergency Telephone Number** 

Chemtrec US: (800) 424-9300

Chemtrec EU: 001 (202) 483-7616

# 2. Hazard(s) Identification

Ciassification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Labei Eiements

None required

## Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / Information on Ingredients

Component	CAS-No	Weight %	
Water	7732-18-5	>98	
Eosin-Y Dye	17372-87-1	<1	

## 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhaiation

Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Notes to Physician

No information available. Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire

with water spray.

Unsuitable Extinguishing Media Water

Flash Point Method -

None °C / °F

No information available

**Autoignition Temperature** 

Not applicable °C / °F

Expiosion Limits
Upper

No data available No data available

Lower No data available
Sensitivity to Mechanical impact No information available
Sensitivity to Static Discharge No information available

## Specific Hazards Arising from the Chemicai

None known. Flammable.

Hazardous Combustion Products
Carbon monoxide (CO) Formaldehyde

Protective Equipment and Precautions for Firefighters

In the event of fire, wear self contained breathing apparatus.

NFPA

Heaith 1 Fiammability

instability

Physical hazards N/A

## 6. Accidental release measures

Personal Precautions

**Environmental Precautions** 

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Should not be released into the environment. See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary Up measures against static discharges. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

Handling

Use only under a chemical fume hood. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Use explosion-proof

electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personai Protective Equipment

Eyelface Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Liquid

Appearance Clear, Green - Orange

Odor Characteristic

Odor ThresholdNo information availablepHNo information availableMeiting Point/RangeNo data available

Boiling Point/Range
No information available
None °C / °F

Evaporation Rate (Ether = 1.0)

Flammability (solid,gas)

No information available

Fiammability or explosive limits

Upper No data available
Lower No data available

Vapor PressureNo information availableVapor Density(Air = 1.0)

Relative Density
Solubility
No information available
Miscible with water
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature

Not applicable °C / °F

Decomposition Temperature

No information available

Viscosity

No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Formaldehyde

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

Component information

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

May cause eye, skin, and respiratory tract irritation

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not ilsted	Not listed	Not listed	Not listed	Not iisted
Eosin-Y Dye	17372-87-1	Not listed	Not listed	Not Ilsted	Not listed	Not listed

**Mutagenic Effects** 

No information available

Reproductive Effects

No information available.

**Developmental Effects** 

No information available.

**Teratogenicity** 

No information available.

STOT - single exposure STOT - repeated exposure

None known None known

**Aspiration hazard** 

No information available

Symptoms / effects, both acute and No information available

delayed

**Endocrine Disruptor information** 

No information available

Other Adverse Effects

No information available.

# 12. Ecological information

Ecotoxicity

No information available.

Persistence and Degradability **Bioaccumulation/ Accumulation**  No information available No information available.

**Mobility** 

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport informati	OR
<u> </u>	Not regulated	
DOT TDG	Not regulated	
ATA_	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory Informat	ion

Ail of the components in the product are on the following inventory lists: Australia X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe TSCA Korea Philippines

#### international inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	X	Х	Paragraph (	231-791-2			Х	W. Table	Х	Х	Х
Eosin-Y Dye	Х	Х		241-409-6		WH ( II)	Х	Х	Х	X	X

## Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the inventory Update Rule, i.e. Partial Updating of the TSCA inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

#### **SARA 313**

SARA 311/312 Hazardous Categorization

**Acute Health Hazard** Yes Chronic Health Hazard No **Fire Hazard** Yes Sudden Release of Pressure Hazard No **Reactive Hazard** No

Clean Water Act

Not applicable

## Clean Air Act

**OSHA** Occupational Safety and Health Administration Not applicable

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## Caiifornia Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Wassachusetts	New Jersey	Pennsylvania	Illinols	Rhode Island
Water	HE STATE OF LIVERS		X		

#### U.S. Department of Transportation

Reportable Quantity (RQ):

N

**DOT Marine Pollutant** 

**DOT Severe Marine Pollutant** 

N

## U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

## Other international Regulations

Mexico - Grade

Serious risk, Grade 3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMiS Hazard Class** 

Non-controlled

16. Other Information				
Prepared By	Regulatory Affairs Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific Tel: (800) 522-7270			
Creation Date Revision Date Print Date Revision Summary	06-Nov-2014 06-Nov-2014 06-Nov-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)			

#### Disciaimer

The information provided on this 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS** 



# **SAFETY DATA SHEET**

Creation Date 06-Nov-2014

Revision Date 06-Nov-2014

**Revision Number 1** 

## 1. Identification

**Product Name** 

Shandon Rapid-Chrome Kwik Diff Solution 3 - Methylene Blue

Cat No.:

9990707

**Synonyms** 

Methylene Blue

**Recommended Use** 

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

**Emergency Telephone Number** 

Richard Allan Scientific

Chemtrec US: (800) 424-9300

A Subsidiary of Thermo Fisher Scientific

Chemtrec EU: 001 (202) 483-7616

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270

## 2. Hazard(s) identification

Ciassification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Labei Elements

**Hazard Statements** 

**Precautionary Statements** Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Sodium chloride	7647-14-5	<1
Methylene blue	61-73-4	<1
Water	7732-18-5	>99
Oxalate, potassium, monohydrate	6487-48-5	<1

# 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Obtain medical attention.

ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects

Notes to Physician

No information available. Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Expiosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemicai

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products** 

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NOx) Sulfur oxides Hydrogen chloride gas

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health Flammability Instability Physical hazards
2 1 0 N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

information.

Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for

Up disposal.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do

not breathe dust. Do not ingest. Avoid contact with skin, eyes and clothing.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Respiratory Protection

Wear appropriate protective gloves and clothing to prevent skin exposure. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice.

**Hyglene Measures** 

# Physical and chemical properties

Physical State Solid Appearance Dark blue Odor Odorless

**Odor Threshold** No information available No information available Meiting Point/Range No data available **Boiling Point/Range** No information available

**Fiash Point** No information available **Evaporation Rate** No information available Fiammability (solid,gas) No information available

Fiammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** No information available **Vapor Density** 13 (Air = 1.0)

**Relative Density** No information available Solubility Soluble in water

Partition coefficient; n-octanoi/water No data available **Autoignition Temperature** No information available **Decomposition Temperature** > 160°C

Viscosity

No information available

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stabliity Stable under normal conditions.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Excess heat.

Strong oxidizing agents, Reducing agents, Bases incompatible Materiais

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides,

Hydrogen chloride gas

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

## **Acute Toxicity**

**Component information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	3 g/kg (Rat)	Not listed	42 g/m³ (Rat) 1 h
Toxicologically Synergistic	No information available		

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

irritation

No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium chloride	7647-14-5	Not listed				
Methylene biue	61-73-4	Not listed	Not iisted	Not ilsted	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not iisted	Not listed	Not listed
Oxalate, potassium, monohydrate	6487-48-5	Not ilsted	Not listed	Not listed	Not listed	Not iisted

**Mutagenic Effects** 

No information available

Reproductive Effects

Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** 

Developmental effects have occurred in experimental animals.

**Teratogenicity** 

Teratogenic effects have occurred in experimental animals.

STOT - single exposure STOT - repeated exposure None known None known

**Aspiration hazard** 

No information available

Symptoms / effects, both acute and No information available

delayed

**Endocrine Disruptor information** 

No information available

Other Adverse Effects

See actual entry in RTECS for complete information.

# 12. Ecological information

## Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea EC50: 1000 mg/L/48h		
Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	Not listed			

Persistence and Degradability

No information available

**Bioaccumulation/ Accumulation** 

No information available.

**Mobliity** 

No information available.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT TDG IATA	Not regulated	
<u>TDG</u>	Not regulated	
ATA	Not regulated	
MDG/IMO	Not regulated	
	15. Regulatory Information	

Ail of the components In the product are on the following inventory lists: Australia X = listed China The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Philippines

## international inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium chloride	X	Х		231-598-3	R -5 T		Х	Х	Х	Х	X
Methylene blue	X	Х	-y -	200-515-2			Х		Х	Х	X
Water	X	Х	-	231-791-2	× = -		Х		Х	X	X
Oxalate, potassium, monohydrate	-	¥			11 5 1		Х		Х	Х	-

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the inventory Update Rule, i.e. Partial Updating of the TSCA inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

#### U.S. Department of Transportation

Reportable Quantity (RQ): NDOT Marine Pollutant NDOT Severe Marine Pollutant N

## U.S. Department of Homeiand Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** 

D1B Toxic materials



## 16. Other Information

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

## **Discialmer**

The information provided on this 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**