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# Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 05/13/2015 Reviewed on 05/13/2015

### 1 Identification

· Product identifier

· Trade name: Rio Vacu-Film Concentrate

· Article number: 702-152

· Recommended use and restriction on use

· Recommended use: Surface modifiers

· Restrictions on use: No further relevant information available.

· Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

RIO GRANDE 7500 Bluewater Rd. NW Alburquerque NM 87121-1962 1-800-545-6566 info@riogrande.com

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Lig. 2 H225 Highly flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Additional information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- Hazard-determining components of labeling: acetone

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#### · Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### · Precautionary statements

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

P261 Avoid breathing mist, vapors, or spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P362 Take off contaminated clothing and wash before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P312 Call a poison center/doctor if you feel unwell. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · Hazard description:

### WHMIS-symbols:

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects





- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 3

REACTIVITY Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description**: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
9016-45-9	4-nonylphenyl-polyethylene glycol	60-80%	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319		
67-64-1	acetone	20-40%	
	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336		

Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

#### 4 First-aid measures

- · Description of first aid measures
- General information: Take affected persons out into the fresh air.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty

Coughing

Dizziness

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Irritating to eyes and skin.

· Danger

Danger of impaired breathing.

May cause drowsiness or dizziness.

Vapors have narcotic effect.

Danger through skin absorption.

Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

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### 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

Water fog / haze

Water spray

Foam

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered receptacles with water fog.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources.

Protect from heat.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Use only in well ventilated areas.

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Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty receptacles.

Fumes can combine with air to form an explosive mixture.

Emergency cooling must be available in case of nearby fire.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

67-64-1 acetone		
PEL (USA)	Long-term value: 2400 mg/m³, 1000 ppm	
REL (USA)	Long-term value: 590 mg/m³, 250 ppm	
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm BEI	
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm	
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm	
LMPE (Mexico)	Short-term value: 750 ppm Long-term value: 500 ppm A4, IBE	
		(Contd. on page

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### · Ingredients with biological limit values:

#### 67-64-1 acetone

BEI (USA) 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Engineering controls: No further relevant information available.
- · Breathing equipment:

Use suitable respiratory protective device when aerosol or mist is formed.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

- · Body protection: Solvent resistant protective clothing
- · Limitation and supervision of exposure into the environment Avoid release to the environment.
- · Risk management measures

See Section 7 for additional information.

No further relevant information available.

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### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Color: Light red
Odor: Fruit-like
Odor threshold: Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Undetermined.

-9 °C (16 °F)

Flammability (solid, gaseous):
Not applicable.

Auto-ignition temperature:
Not determined.

• **Auto igniting:** Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/

vapor mixtures are possible.

· Explosion limits:

Lower:
Upper:
Not determined.

Vapor pressure:
Not determined.

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Other information No further relevant information available.

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### 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

Possibility of hazardous reactions

Highly flammable liquid and vapor.

Reacts with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials: Oxidizing agents
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

### 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values that are relevant for classification:

#### 9016-45-9 4-nonylphenyl-polyethylene glycol

Oral LD50 4290 mg/kg (mouse)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Subacute to chronic toxicity: No further relevant information available.
- · Additional toxicological information:

Irritant

Toxic and/or corrosive effects may be delayed up to 24 hours.

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

- · Carcinogenic categories
- · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Probable Routes of Exposure

Inhalation.

Eye contact.

Skin contact.

Ingestion.

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· Acute effects (acute toxicity, irritation and corrosivity):

Vapors have narcotic effect.

Irritating to eyes.

Irritating to skin.

· Repeated Dose Toxicity: No further relevant information available.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity:

Toxic for aquatic organisms

#### 9016-45-9 4-nonylphenyl-polyethylene glycol

LC50 1.821 mg/l (daphnia) (48 h)

- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even small quantities leak into the ground.

· Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- · Waste disposal key: EPA RCRA Code (USA): U002.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

### 14 Transport information

- · UN-Number
- · DOT

UN1993

Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than

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UN1993

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450L (119 gallons) for a liquid and a maximum net mass

\_\_\_\_\_\_

\_\_\_\_\_

greater than 400kg (882 pounds) for a solid.

· ADR, IMDG, IATA

· UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

· **DOT, IATA** Flammable liquids, n.o.s. (Acetone)

ADR 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE),

**ENVIRONMENTALLY HAZARDOUS** 

· IMDG 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE) MARINE

**POLLUTANT** 

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

· Label

· ADR





· Class 3 (F1) Flammable liquids

· Label

· IMDG





· Class 3 Flammable liquids

· Label

· IATA



· Class 3 Flammable liquids

· Label

· Packing group

DOT, ADR, IMDG, IATA

• Environmental hazards: Product contains environmentally hazardous substances: 4-

3

nonylphenyl-polyethylene glycol

· Marine pollutant: Yes

Symbol (fish and tree)

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Special marking (ADR):Special precautions for userSymbol (fish and tree)Warning: Flammable liquids

Danger code (Kemler): 33 EMS Number: F-E,S-E

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

• Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

· ADR

• Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· IMDG

Limited quantities (LQ)Excepted quantities (EQ)Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN1993, FLAMMABLE LIQUIDS, N.O.S. (ACETONE),

ENVIRONMENTALLY HAZARDOUS, 3, II

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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(Contd. of page 11) Carcinogenic categories EPA (Environmental Protection Agency) 67-64-1 acetone I IARC (International Agency for Research on Cancer) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) 67-64-1 acetone A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. Canadian substance listings: · Canadian Domestic Substances List (DSL) All ingredients are listed. Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients is listed. · Canadian Ingredient Disclosure list (limit 1%) 67-64-1 acetone

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 05/13/2015 / -

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· Sources

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