1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: DVA Die Spacer

MANUFACTURER
Dental Ventures of America, Inc.
1787 Pomona Rd., Suite C
Corona, 92880, CA.

USE OR APPLICATION:
The application of die spacer results in additional space between the finished restoration and the natural tooth surface to accommodate the cement used for bonding the restoration.

USES ADVISED AGAINST:
Not known.

2. HAZARD(S) IDENTIFICATION

GHS CLASSIFICATIONS

SIGNAL WORD
Danger

GHS LABEL ELEMENTS

HAZARD STATEMENTS
Flam. Liq 2: H 225  Highly flammable liquid and vapor
Skin Irrit. 3: H316  Causes mild skin irritation (Not adopted by US OSHA)
Eye Irrit. 2:  H319  Causes serious eye irritation
STOT SE 3: H336  May cause drowsiness or dizziness
H 225  Highly flammable liquid and vapor
H316  Causes mild skin irritation.
H319  Causes serious eye irritation
H336  May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS

P210  Keep away from heat/sparks/open flames/hot surfaces - No smoking
P235  Keep cool
P240  Ground/bond container and receiving equipment
SAFETY DATA SHEET

DIE SPACER

(Red and Blue, Pg. 2

P241 Use explosion-proof electrical/ventilating/light/equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against status discharge
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P262 Do not get in eyes, or skin, or on clothing
P264 Wash thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/eye protection/face protection

RESPONSE:
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+361+353 IF ON SKIN (or Hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P304+312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P331 DO NOT induce vomiting
P332+313 If skin irritation occurs: Get medical advice/attention
P337+313 If eye irritation persists: Get medical advice/attention
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing
P370+378 In case of fire: Use extinguishing media listed in Section 5 of SDS for extinction

STORAGE:
P403+233 Store in a well ventilated place. Keep container tightly closed
P405 Store locked up

DISPOSAL:
P501 Dispose of contents/container in accordance with local/national regulations.

3. COMPOSITION /INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

SUBSTANCES or MIXTURE Liquid

<table>
<thead>
<tr>
<th>NO. COMPONENT/CAS.NO</th>
<th>PERCENT</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanone/0000078-93-3</td>
<td>50 - 75</td>
<td>Flam.Liq.2:H225</td>
<td>(1)(2)</td>
</tr>
<tr>
<td>Titanium dioxide/0013463-67-7</td>
<td>10 - 25</td>
<td>Not Classified</td>
<td>(1)(2)</td>
</tr>
</tbody>
</table>
# SAFETY DATA SHEET

**DIE SPACER**

*(Red and Blue), Pg. 3*

<table>
<thead>
<tr>
<th>NO. COMPONENT/CAS.NO</th>
<th>PERCENT</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. Pigment Blue 15/0000147-14-8</td>
<td>1.0 - 10</td>
<td>Not Classified</td>
<td>(1)</td>
</tr>
<tr>
<td>C.I. Pigment Red 170/0002786-76-7</td>
<td>1.0 - 10</td>
<td>Not Classified</td>
<td>(1)</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether acetate/0000108-65-6</td>
<td>1.0 - 10</td>
<td>Flam. Liq. 3: H226</td>
<td>(1)</td>
</tr>
<tr>
<td>Solvent Naphtha (petroleum), light aromatic 0064742-95-6</td>
<td>1.0 - 10</td>
<td>Asp. Tox 1: H304</td>
<td>(1)</td>
</tr>
<tr>
<td>Iron oxide/0001309-37-1</td>
<td>1.0 - 10</td>
<td>Not Classified</td>
<td>(1)(2)</td>
</tr>
<tr>
<td>Benzene, Trimethyl/0025551-13-7</td>
<td>1.0 - 10</td>
<td>Flam. Liq 2:H225, Acute Tox. 4:H302, Acute Tox. 4:H312, Skin Irrit. 2:H315</td>
<td>(1)</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene/0000095-63-6</td>
<td>1.0 - 10</td>
<td>Flam. Liq. 3:H225, Acute Tox. 4: H332, Eye Irrit. 2:H319, STOT SE 3:H335, Skin Irrit. 2: H315, Aquatic Chronic 2: H411</td>
<td>(1)(2)</td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of 1910,1200, the specific chemical identify and/or exact percentage (concentration) of composition has been with held as a trade secret.

(1) Substance classified with a health or environmental hazard
(2) Substance with a workplace exposure limit.
(3) PBT-substance or vPvB-substance
*The full texts of the phrases are shown in Section 16.

## 4. FIRST-AID MEASURES

### Description of first aid measures

**General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped give artificial respiration. If unconscious place in the recover position and obtain immediate medical attention. Give nothing by mouth.

**Eyes:** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion:** Seek medical attention. If victim is drowsy/unconscious, place on left side with head down. Do not give anything by mouth. If victim is conscious/alert, give no more than 2 glasses of water and induce vomiting (30 cc or 2 tbsp syrup of ipecac or stick finger down person's throat). Reduce above by half for child. Keep victim's head below hips.
Most Important symptoms and effects, both acute and delayed - OVERVIEW

**Inhalation/Ingestion:** Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness).

**Skin/Eyes:** Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.

**Carcinogenicity:** None, but Proposition 65 (CA)-Warning - this product contains trace amounts of heavy metals which the State of Calif. has determined are carcinogens or cause reproductive toxicity. (As,Cd,Pb, Hg, and/or NI are present in trace PPM.)

**POTENTIAL HEALTH EFFECTS**

**Eye Contact:** May cause tearing, stinging, redness, irritation and burns.

**Inhalation:** Irritating to respiratory tract. Prolonged or repeated breathing of very high vapor concentrations cause euphoria, excitation and dizziness, headaches, nausea and vomiting, abdominal pain, fatigue, muscular weakness. Aspiration into the lungs can cause CNS (Central nervous system) and subsequent aspiration into the lungs can cause pulmonary edema and chemical pneumonia depression. Chronic overexposure in high concentrations may produce CNS depression.

**Ingestion:** Irritation of the mouth, esophagus and stomach can develop following ingestion. Symptoms include burning of the mouth, sore throat, vomiting, nausea, dizziness, loss of consciousness. Due to its light viscosity, there is danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death.

**Skin Contact:** Prolonged or repeated skin contact may cause moderate to severe irritation including itching and redness of the skin, defatting, and/or dermatitis. This product can also be absorbed through the skin and produce CNS symptoms. Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

**Signs and Symptoms of Exposure:** Eye irritation, respiratory irritation, drying and cracking of skin, dizziness, fatigue, headache, unconsciousness or asphyxiation. Chronic effects of ingestion and subsequent aspiration into the lungs can cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Repeated breathing of vapors can cause effects to liver and kidneys. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and CNS. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See Section 2 for further details.
5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Water spray, dry chemical, alcohol foam, carbon dioxide

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Hazardous decomposition: Oxide of Carbon
Keep away from heat/sparks/open flames/hot surfaces - no smoking, keep cool
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/light/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Avoid breathing dust/fume/gas/mist/vapors
Do not get in eyes, on skin, or on clothing

ADVICE FOR FIRE-FIGHTERS
Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool containers. For small bottle: Smother with water, wet blanket or towel.

Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.
ERG Guide No. 128

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Put on appropriate personal protective equipment (see Section 8)

ENVIRONMENTAL PRECAUTIONS:
Do not allow spills to enter drains or waterways
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

METHODS AND MATERIALS FOR CONTAINMENT:
Spill clean-up: Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery, use caution. Soak up with inert absorbent material (paper towel, sand, silica gel, sawdust). Avoid breathing vapor.
Normal disposal: Waste Classification: Methyl Ethyl Ketone (78-93-3), 40 CFR 261.20-24. For discard, this is classified as a hazardous waste with the characteristic of ignitibility and toxicity. RCRA #D001. Reportable quantity is 100 lbs. (40 CFR 302) Incinerate liquid and contaminated solids in accordance with local, state and federal regulations. (See 40 CFR 268). For small quantity spills, allow solvent in paper towel to evaporate in well ventilated areas or outdoors (preferred).
Contaminated Packaging: Empty containers should be taken for local recycling or waste disposal. Dumping of product in ground or sewers may be illegal. Eliminate ignition sources. Soak up with noncombustible absorbent material.
7. HANDLING AND STORAGE

**HANDLING:**
Ground all containers when transferring material. Periodically clean neck of bottle of resinous build-up (clean inside of cap) to maintain proper seal. Do not smoke when using. Add thinner as needed to keep proper thinness of material (See Section 2 for further details) (prevention)

**STORAGE:**
Handle containers carefully to prevent damage and spillage.
Limit storage of flammable material to approved areas. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Avoid storing near acids, chlorinated solvents. Storage temp: 60 C/140 Fmin. Containers may be hazardous when empty. Emptied containers contain residue. See Section 2 for further details (storage)

**INCOMPATIBILITIES:**
Strong oxidizing agents, strong acids and strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000078-93-3</td>
<td>Butanone</td>
<td>OSHA</td>
<td>TWA 200 ppm (590 mg/m3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 50 ppm STEL: 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 200 ppm (590 mg/m3) ST 300 ppm (885 mg/m3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0000095-63-6</td>
<td>1,2,4-trimethylbenzene</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 25 ppm (125 mg/m3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0000108-65-6</td>
<td>Propylene glycol monomethyl ether acetate</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 50 ppm STEL: 75 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0000147-14-8</td>
<td>C.I. Pigment Blue 15</td>
<td>OSHA</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0001309-37-1</td>
<td>Iron oxide</td>
<td>OSHA</td>
<td>TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)</td>
</tr>
<tr>
<td>CAS No.</td>
<td>Ingredient</td>
<td>Source</td>
<td>Value</td>
</tr>
<tr>
<td>--------------------</td>
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</tr>
<tr>
<td>0000078-93-3</td>
<td>Butanone</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0000095-63-6</td>
<td>1,2,4-trimethylbenzene</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0000108-65-6</td>
<td>Propylene glycol monomethyl ether</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td>acetate</td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0000147-14-8</td>
<td>C.I. Pigment Blue 15</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

DIE SPACER

(Red and Blue), Pg. 8

0001309-37-1  Iron oxide
OSHA  Select Carcinogen: No
NTP  Known: No; Suspected: No
IARC  Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

0002786-76-7  C.I. Pigment Red 170
OSHA  Select Carcinogen: No
NTP  Known: No; Suspected: No
IARC  Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

0013463-67-7  Titanium dioxide
OSHA  Select Carcinogen: No
NTP  Known: No; Suspected: No
IARC  Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;

0025551-13-7  Benzene, trimethyl-
OSHA  Select Carcinogen: No
NTP  Known: No; Suspected: No
IARC  Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

0064742-95-6  Solvent naphtha (petroleum), light aromatic
OSHA  Select Carcinogen: No
NTP  Known: No; Suspected: No
IARC  Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

EXPOSURE CONTROLS

Respiratory
If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes
Chemical resistant goggles

Skin
Chemical resistant gloves (PVC or PE etc.)

Engineering Controls
Provide adequate ventilation. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red and Blue/Liquid
Odor: Acetate
Odor threshold: Not determined
pH: Not Measured
Melting point / freezing point: -86°C/-123°F
Initial boiling point and boiling range: 80°C/176°F
Flash Point: -4°C/25°F (SFCC)
Evaporation rate: (Ether = 1) > 1
Flammability (solid, gas): Not Applicable
Upper/lower flammability or explosive limits: Lower Explosive Limit: 1 est.
Upper Explosive Limit: 12 est.
Vapor pressure (Pa): 20°C/68°F (at 70 mmHg)
Vapor Density: > 1
Specific Gravity: Approx. 1
Solubility in Water: Slight
Partition coefficient n-octanol/water: (Log Kow) Not Measured
Auto-ignition temperature: 516°C/961°F
Decomposition temperature: Not Measured
Viscosity (cSt): Not Measured
Stable: Vehicle and solvent: somewhat; Pigment: insoluble
9.2. Other information: No other relevant information.

10. STABILITY AND REACTIVITY

Reactivity: Hazardous polymerization will not occur.
Chemical Stability: Stable under normal circumstances
Possibility of Hazardous Reactions: No data available
Conditions to avoid: Avoid contact with ignition sources and keep containers away from incompatibles. Keep containers closed when not in use.

11. TOXICOLOGICAL INFORMATION

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin.
Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Based upon animal testing, the C9 aromatic hydrocarbon components (trimethylbenzenes and ethylmethylbenzenes) are presumed to cause fetal toxicity and/or decreased fetal and newborn weights if overexposure occurs during the early gestation period.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor, LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist Gas LC50 mg/L/4hr ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanone - (78-93-3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide - (13463-67-7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.I. Pigment Blue 15 - (147-14-8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.I. Pigment Red 170 - (2786-76-7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether acetate - (108-65-6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aromatic - (64742-95-6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron oxide - (1309-37-1)1</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Benzene, trimethyl- - (25551-13-7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene - (95-63-6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product’s ATE (Acute Toxicity Estimate).

The resulting data is on file and will be made available upon request.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>3</td>
<td>Causes mild skin irritation. (Not adopted by US OSHA)</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>8 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanone - (78-93-3)</td>
<td>400.00, Cyprinodon variegatus</td>
<td>520.00, Daphnia magna</td>
<td>500.00 (96 hr), Skeletonema costatum</td>
</tr>
<tr>
<td>Titanium dioxide - (13463-67-7)</td>
<td>1,000.00, Fundulus heteroclitus</td>
<td>5.50, Daphnia magna</td>
<td>5.83 (72 hr), Pseudokirchneriella subcapitata</td>
</tr>
<tr>
<td>C.I. Pigment Blue 15 - (147-14-8)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>C.I. Pigment Red 170 - (2786-76-7)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether acetate - (108-65-6)</td>
<td>100.00, Salmo gairdneri</td>
<td>500.00, Daphnia magna</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aromatic - (64742-95-6)</td>
<td>9.22, Oncorhynchus mykiss</td>
<td>6.14, Daphnia magna</td>
<td>19.00 (72 hr), Selenastrum capricornutum</td>
</tr>
<tr>
<td>Iron oxide - (1309-37-1)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Persistence and degradability: There is no data available on the preparation itself.
Bioaccumulative potential: Not measured
Mobility in soil: No data available
Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:
Observe all federal, state and local regulations when disposing of this substance.
SAFETY DATA SHEET

DIE SPACER
(Red and Blue), Pg.12

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>UN1993</td>
<td>UN1993</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>UN 1993, Flammable Liquids, n.o.s, (Methyl Ethyl Ketone, 3 II)</td>
<td>UN 1993, Flammable Liquids, n.o.s, (Methyl Ethyl Ketone, 3 II)</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: 3</td>
<td>IMDG: 3</td>
</tr>
<tr>
<td></td>
<td>Sub Class: Not Applicable</td>
<td>Air Class: 3</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>IMDG Marine Pollutant: No</td>
<td></td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>No further information</td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification
B2 D2B

US EPA Tier II Hazards
Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):
Butanone (5,000.00)

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
1,2,4-trimethylbenzene
C.I. Pigment Blue 15
Manganese oxide (Mn2O3)
Proposition 65 - Carcinogens (>0.0%):
- Benzene, (1-methylethyl)-
- Carbon black
- Titanium dioxide

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
- 1,2,4-trimethylbenzene
- Butanone
- Iron oxide
- Titanium dioxide
- Benzene, trimethyl-

Pennsylvania RTK Substances (>1%):
- 1,2,4-trimethylbenzene
- Butanone
- Iron oxide
- Titanium dioxide
- Benzene, trimethyl-

### 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.
- H411 Toxic to aquatic life with long lasting effects.

DATE PREPARED: May, 2015
SUPERSEDES MSDS: 2006

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