

Phone: (833)-423-0432 www.gcelectronics.com

SDS Number: 137 Revision Date: 12/08/2023 Supersedes Date:05/18/2018

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: RED-X CORONA DOPE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type: Coating Emergency Contact: Chemtrec

Product Name: RED-X CORONA DOPE Phone: (800) 424-9300

Part Number(s): 10-5002

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn

child.

Specific Target Organ Toxicity - Repeated Exposure 1 H372-H373 Causes damage to organs through prolonged

or repeated exposure. May cause damage to the hearing organs through prolonged or

repeated exposure.



Skin Irritation 2 H315 Causes skin irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

CHSUS

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Product Name: RED-X CORONA DOPE

SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)

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

ethylbenzene 2-butanone oxime

toluene

cobalt(II) 2-ethylhexanoate tris(nonylphenyl) phosphite

· Hazard statements

H226 Flammable liquid and vapor. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

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SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)

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



Health = 1 Fire = 3

 \nearrow Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

| · Dangerous components: | | |
|-------------------------|-----------------------------|---------------|
| 1330-20-7 | Xylene | >25 – ≤50% |
| 100-41-4 | Ethylbenzene | >2.5 – <10% |
| 96-29-7 | 2-Butanone oxime | >2.5 – <10% |
| 108-88-3 | Toluene | ≥0.1 – ≤2.5% |
| 136-52-7 | Cobalt(II) 2-ethylhexanoate | ≥0.1 – ≤2.5% |
| 26523-78-4 | Tris(nonylphenyl) phosphite | ≥0.1 – <0.25% |

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SECTION 4. FIRST AID MEASURES

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6. ACCIDENTAL RELEASE MEASURES

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- · Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

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Product Name: RED-X CORONA DOPE

SECTION 6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

· Protective Action Criteria for Chemicals

| · PAC-1: | | |
|-----------|-----------------|------------------------|
| 1330-20-7 | xylene | 130 ppm |
| 1309-37-1 | diiron trioxide | 15 mg/m³ |
| 100-41-4 | ethylbenzene | 33 ppm |
| 108-88-3 | toluene | 67 ppm |
| PAC-2: | | |
| 1330-20-7 | xylene | 920* ppm |
| 1309-37-1 | diiron trioxide | 360 mg/m³ |
| 100-41-4 | ethylbenzene | 1100* ppm |
| 108-88-3 | toluene | 560 ppm |
| PAC-3: | | |
| 1330-20-7 | xylene | 2500* ppm |
| 1309-37-1 | diiron trioxide | $2,200 \text{ mg/m}^3$ |
| 100-41-4 | ethylbenzene | 1800* ppm |
| 108-88-3 | toluene | 3700* ppm |

SECTION 7. HANDLING AND STORAGE

- · Handling
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

| 1330-2 | 20-7 xylene |
|--------|---|
| PEL | Long-term value: 435 mg/m³, 100 ppm |
| REL | Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm |
| TLV | Long-term value: 20 ppm BEI, A4 |
| 100-41 | -4 ethylbenzene |
| PEL | Long-term value: 435 mg/m³, 100 ppm |
| REL | Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm |
| TLV | Long-term value: 20 ppm OTO, BEI, A3 |
| 96-29- | 7 2-butanone oxime |
| WEEL | Long-term value: 10 ppm DSEN |
| 108-88 | 1-3 toluene |
| PEL | Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift |
| REL | Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm |
| TLV | Long-term value: 20 ppm BEI, OTO, A4 |
| 136-52 | -7 cobalt(II) 2-ethylhexanoate |
| TLV | Long-term value: 0.02* mg/m³ as Co, A3; *inhalable; DSEN; RSEN; BEI |
| Ingred | lients with biological limit values: |
| 1330-2 | 20-7 xylene |
| M. | 5 g/g creatinine ledium: urine ime: end of shift arameter: Methylhippuric acids |
| | -4 ethylbenzene |
| BEI 0. | 15 g/g creatinine ledium: urine ime: end of shift at end of workweek arameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific) |

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Product Name: RED-X CORONA DOPE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

108-88-3 toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. 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.

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Tightly sealed goggles

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

· Eye protection:

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Color: · Odor:

Odor: AromaticOdor threshold: Not determined.

Fluid Red

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| · pH-value: | Not determined. |
|---|--|
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | Undetermined. Undetermined. |
| · Flash point: | 27 °C (80.6 °F) |
| · Flammability (solid, gaseous): | Flammable. |
| Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| Danger of explosion: | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
| · Explosion limits: Lower: Upper: | Not determined. Not determined. |
| · Vapor pressure: | Not determined. |
| Density: Relative density Vapor density Evaporation rate | Not determined. Not determined. Not determined. Not determined. |
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/wat | ter): Not determined. |
| · Viscosity: Dynamic: Kinematic: | Not determined. Not determined. |
| · Solvent content: Organic solvents: VOC content: | 44.3 % 50.6 % 527.3 g/l / 4.40 lb/gal |
| Other information | No further relevant information available. |

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SECTION 10. STABILITY AND REACTIVITY

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

- · Information on toxicological effects
- · Acute toxicity:

| · LD/LC50 | · LD/LC50 values that are relevant for classification: | |
|------------|--|-----------------------|
| ATE (Acu | te Toxicity | Estimate) |
| Dermal | LD50 | 5,621 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 25 mg/l |
| 1330-20-7 | xylene | |
| Oral | Oral LD50 4,300 mg/kg (rat) | |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |
| 100-41-4 e | 100-41-4 ethylbenzene | |
| Oral | LD50 | 3,500 mg/kg (rat) |
| Dermal | Dermal LD50 17,800 mg/kg (rabbit) | |
| 108-88-3 t | 108-88-3 toluene | |
| Oral | LD50 | 5,000 mg/kg (rat) |
| Dermal | LD50 | 12,124 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 5,320 mg/l (mouse) |

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

| · IARC (Inte | · IARC (International Agency for Research on Cancer) | | |
|--------------|--|----|--|
| 1330-20-7 | xylene | 3 | |
| 1309-37-1 | diiron trioxide | 3 | |
| 100-41-4 | ethylbenzene | 2B | |
| 108-88-3 | toluene | 3 | |
| 136-52-7 | cobalt(II) 2-ethylhexanoate | 2B | |
| · NTP (Nati | onal Toxicology Program) | | |
| None of the | e ingredients is listed. | | |
| · OSHA-Ca | (Occupational Safety & Health Administration) | | |
| None of the | None of the ingredients is listed. | | |

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SECTION 12. ECOLOGICAL INFORMATION

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

| · UN-Number · DOT, IMDG, IATA | UN1263 | |
|--|----------------|--|
| · UN proper shipping name · DOT, IATA · IMDG | Paint PAINT | |

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids · Label 3

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SECTION 14. TRANSPORT INFORMATION (CONTINUED)

| · IMDG, IATA | |
|---|--|
| Class Label | 3 Flammable liquids |
| · Packing group · DOT, IMDG, IATA | III |
| Environmental hazards: | Not applicable. |
| Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category | Warning: Flammable liquids 30 F-E,S-D A |
| 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: 60 L On cargo aircraft only: 220 L |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 1263 PAINT, 3, III |

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SECTION 15. REGULATORY INFORMATION

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

| - Section 35 | Section 355 (extremely hazardous substances): | | |
|------------------------------------|---|--------|--|
| None of the ingredients is listed. | | | |
| - Section 31. | Section 313 (Specific toxic chemical listings): | | |
| 1330-20-7 | xylene | | |
| 100-41-4 | ethylbenzene | | |
| 108-88-3 | toluene | | |
| 136-52-7 | cobalt(II) 2-ethylhexanoate | | |
| · TSCA (To: | cic Substances Control Act): | | |
| | Oil Modified Polyurethance Resin | ACTIVE | |
| 1330-20-2 | zylene zylene | ACTIVE | |
| 1309-37- | diiron trioxide | ACTIVE | |
| 100-41-4 | t ethylbenzene | ACTIVE | |
| 64742-47-8 | Distillates (petroleum), hydrotreated light | ACTIVE | |
| 108-88- | toluene | ACTIVE | |
| 22464-99-9 | Zirconium | ACTIVE | |
| 136-52-7 | cobalt(II) 2-ethylhexanoate | ACTIVE | |
| | tris(nonylphenyl) phosphite | ACTIVE | |
| 7585-20-8 | Zirconium Acetate | ACTIVE | |
| · Hazardous | Air Pollutants | | |
| 1330-20-7 | xylene | | |
| 100-41-4 | ethylbenzene | | |
| 108-88-3 | toluene | | |
| 136-52-7 | cobalt(II) 2-ethylhexanoate | | |
| | | | |

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

· Proposition 65

| · Chemicals known to cause cancer: |
|---|
| 100-41-4 ethylbenzene |
| · Chemicals known to cause reproductive toxicity for females: |
| None of the ingredients is listed. |
| · Chemicals known to cause reproductive toxicity for males: |
| None of the ingredients is listed. |
| · Chemicals known to cause developmental toxicity: |
| 108-88-3 toluene |

· Carcinogenic categories

| · EPA (Envi | ronmental Protection Agency) | |
|--|------------------------------|----|
| 1330-20-7 | xylene | I |
| 100-41-4 | ethylbenzene | D |
| 108-88-3 | toluene | II |
| · TLV (Thre | shold Limit Value) | |
| 1330-20-7 | | A4 |
| 1309-37-1 | diiron trioxide | A4 |
| 100-41-4 | ethylbenzene | A3 |
| 108-88-3 | toluene | A4 |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | | |

- None of the ingredients is listed. · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

· Hazard-determining components of labeling:

ethylbenzene

2-butanone oxime

toluene

cobalt(II) 2-ethylhexanoate tris(nonylphenyl) phosphite

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements

| P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. | P201 | Obtain special instructions before use. |
|---|------|--|
| P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. | P202 | Do not handle until all safety precautions have been read and understood. |
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| · | P270 | Do not eat, drink or smoke when using this product. |
| P280 Wear protective gloves/protective clothing/eye protection/face protection. | P272 | Contaminated work clothing must not be allowed out of the workplace. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

regulations.

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

SECTION 16. OTHER INFORMATION

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

LATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

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SECTION 16. OTHER INFORMATION (CONTINUED)

Flammable Liquids 3: Flammable liquids – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1

* Data compared to the previous version altered.

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