

Page 1/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

1 Identification

· Product identifier

- · Trade name: <u>GRRAL9005 2K DEEP BLACK</u>
- · Article number: GRRAL9005
- · Application of the substance / the mixture refer to the relevant Technical Data Sheet
- · Details of the supplier of the safety data sheet

• *Manufacturer/Supplier:* General Paint Co. S.A.L. P.O. Box 7623 Beirut LEBANON info@generalpaint.biz

- · Information department: Product Safety Department
- Emergency telephone number: 1-800-535-5053 contract number (89244)

2 Hazard(s) 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. Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to the hearing organs through prolonged or repeated exposure. 2 GHS07 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). (Contd. on page 2) US



acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 1) · Hazard pictograms GHS02 GHS07 GHS08 Signal word Warning · Hazard-determining components of labeling: ethylbenzene methyl methacrylate · Hazard statements Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. on page 3)

Page 2/15



acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Page 3/15

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 2) · Classification system: NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 FIRE 3 Fire = 3Reactivity = 0REACTIVITY 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

| · Dangerous components: | |
|-------------------------|--------------------|
| | >25- <i>≤</i> 50% |
| | >10- <i>≤</i> 25% |
| ım), light arom. | >2.5- <i>≤</i> 10% |
| | >2.5- <i>≤</i> 10% |
| | <i>≤</i> 2.5% |
| | ım), light arom. |

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 eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

(Contd. on page 4)

US



acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

- · 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.

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.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 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 section 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.
- Protective Action Criteria for Chemicals

| · PAC-1: | | |
|-----------|-----------------------------|--------------------|
| 1330-20-7 | • | 130 ppm |
| 123-86-4 | n-butyl acetate | 5 ppm |
| | ethylbenzene | 33 ppm |
| 80-62-6 | methyl methacrylate | 17 ppm |
| 868-77-9 | 2-hydroxyethyl methacrylate | 1.9 mg/m³ |
| 872-50-4 | N-methyl-2-pyrrolidone | 30 ppm |
| 97-88-1 | n-butyl methacrylate | 19 mg/m³ |
| | | (Contd. on page 5) |

(Contd. of page 3)

Page 4/15



Page 5/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

| | | (Contd. of page |
|-----------|-----------------------------|-------------------------|
| | dibutyltin dilaurate | 1.1 mg/m ³ |
| 7447-41-8 | lithium chloride | 2.3 mg/m ³ |
| PAC-2: | | |
| 1330-20-7 | xylene | 920* ppm |
| 123-86-4 | n-butyl acetate | 200 ppm |
| 100-41-4 | ethylbenzene | 1100* ppm |
| 80-62-6 | methyl methacrylate | 120 ppm |
| 868-77-9 | 2-hydroxyethyl methacrylate | 21 mg/m ³ |
| 872-50-4 | N-methyl-2-pyrrolidone | 32 ppm |
| 97-88-1 | n-butyl methacrylate | 210 mg/m ³ |
| 77-58-7 | dibutyltin dilaurate | 8 mg/m ³ |
| 7447-41-8 | lithium chloride | 17 mg/m3 |
| PAC-3: | | |
| 1330-20-7 | xylene | 2500* ppm |
| 123-86-4 | n-butyl acetate | 3000* ppm |
| 100-41-4 | ethylbenzene | 1800* ppm |
| 80-62-6 | methyl methacrylate | 570 ppm |
| 868-77-9 | 2-hydroxyethyl methacrylate | 1,000 mg/m ³ |
| 872-50-4 | N-methyl-2-pyrrolidone | 190 ppm |
| 97-88-1 | n-butyl methacrylate | 1,300 mg/m ² |
| 77-58-7 | dibutyltin dilaurate | 48 mg/m ³ |
| 7447-41-8 | lithium chloride | 100 mg/m3 |

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.

(Contd. on page 6)

US



Page 6/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 5)

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 3
- · 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 section 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.

| 1330 | s time, the remaining constituent has no known exposure limits20-7 xylene | |
|-------|---|-----------------|
| | 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 | |
| 123-8 | 36-4 n-butyl acetate | |
| PEL | Long-term value: 710 mg/m³, 150 ppm | |
| REL | Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm | |
| TLV | Short-term value: 150 ppm Long-term value: 50 ppm | |
| 100-4 | 11-4 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 | |
| 80-62 | 2-6 methyl methacrylate | |
| PEL | Long-term value: 410 mg/m³, 100 ppm | |
| REL | Long-term value: 410 mg/m³, 100 ppm | |
| TLV | Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4 | |
| | | (Contd. on page |



Page 7/15

Safety Data Sheet acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

| _ | (Contd. of page 6 |
|------|---|
| - | redients with biological limit values: |
| | 0-20-7 xylene |
| BEI | 1.5 g/g creatinine |
| | Medium: urine |
| | Time: end of shift |
| | Parameter: Methylhippuric acids |
| 100 | -41-4 ethylbenzene |
| BEI | 0.15 g/g creatinine |
| | Medium: urine |
| | Time: end of shift at end of workweek |
| | Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific) |
| Add | ditional information: The lists that were valid during the creation were used as basis. |
| Exc | oosure controls |
| | sonal protective equipment: |
| | neral protective and hygienic measures: |
| | p away from foodstuffs, beverages and feed. |
| | nediately remove all soiled and contaminated clothing. |
| | sh hands before breaks and at the end of work. |
| | re protective clothing separately. |
| | id contact with the skin. |
| | id contact with the eyes and skin. |
| | |
| | athing equipment: |
| | ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longe |
| | osure use respiratory protective device that is independent of circulating air. tection of hands: |
| Pro | tection of hands: |
| | |
| 111 | Protective gloves |
| | |
| The | glove material has to be impermeable and resistant to the product/ the substance/ the preparation |
| | e to missing tests no recommendation to the glove material can be given for the product/ th |
| | paration/ the chemical mixture. |
| | ection of the glove material on consideration of the penetration times, rates of diffusion and th |
| | radation |
| | terial of gloves |
| | |
| | e selection of the suitable gloves does not only depend on the material, but also on further marks of |
| | lity and varies from manufacturer to manufacturer. As the product is a preparation of severa |
| | stances, the resistance of the glove material can not be calculated in advance and has therefore t |
| be d | checked prior to the application. |
| | advation time of alove motorial |

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.

(Contd. on page 8)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

| Information on basic physical and General Information | |
|--|--|
| Appearance: | |
| Form: | Liquid |
| Color: | Black |
| Odor: | Characteristic |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 124 °C (255.2 °F) |
| Flash point: | 25 °C (77 °F) |
| Flammability: | Flammable. |
| Auto igniting: | 370 °C (698 °F) |
| Decomposition temperature: | Not determined. |
| Ignition temperature: | Product is not selfigniting. |
| Danger of explosion: | Product is not explosive. However, formation of explosive air vapor mixtures are possible. |
| Explosion limits: | |
| Lower: | 1.1 Vol % |
| Upper: | 7.5 Vol % |
| Vapor pressure at 20 °C (68 °F): | 10.7 hPa (8 mm Hg) |
| Density at 20 °C (68 °F): | 0.992 g/cm³ (8.27824 lbs/gal) |
| Relative density | Not determined. |
| Vapor density | Not determined. |
| Evaporation rate | Not determined. |



Page 8/15

(Contd. of page 7)

US



Page 9/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

| | (Contd. of pa | age |
|--|--|-----|
| 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. | |
| · Solvent content: | | |
| Organic solvents: | 50.7 % | |
| Coating VOC content: | 50.70 % | |
| - | 503.0 g/l / 4.20 lb/gal | |
| Material VOC content: | 503.0 g/l / 4.20 lb/gal | |
| Solids content: | 49.0 % | |
| • Other information | No further relevant information available. | |

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.

1 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

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

(Contd. on page 10)



Page 10/15

(Contd. of page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

· Additional toxicological information:

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

· Carcinogenic categories

| 0 | 5 | |
|--------------|---|----|
| · IARC (Inte | rnational Agency for Research on Cancer) | |
| 1330-20-7 | • | 3 |
| 100-41-4 | ethylbenzene | 2B |
| 80-62-6 | methyl methacrylate | 3 |
| 97-88-1 | n-butyl methacrylate | 2B |
| · NTP (Natio | nal Toxicology Program) | |
| None of the | e ingredients is listed. | |
| · OSHA-Ca | (Occupational Safety & Health Administration) | |
| None of the | e ingredients is listed. | |

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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

(Contd. on page 11)

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 10)

Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.

| · UN-Number · DOT, ADR, IMDG, IATA | UN1263 | |
|---|--|--|
| · UN proper shipping name · DOT · ADR · IMDG, IATA | Paint 1263 PAINT PAINT | |
| • Transport hazard class(es) • DOT | NOT APPLICABLE | |
| · Class · Label | 3 Flammable liquids 3 | |
| ADR, IMDG, IATA | 3 Flammable liquids 3 | |
| · Packing group · DOT, ADR, IMDG, IATA | <i>III</i> | |
| · Environmental hazards: · Marine pollutant: | No | |
| Special precautions for user EMS Number: Stowage Category | Warning: Flammable liquids F-E, <u>S-E</u> A | |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | r II of Not applicable. | |



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Page 11/15



Page 12/15

Safety Data Sheet acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

| Transport/Additional information: | (Contd. of pag |
|-----------------------------------|---|
| | |
| DOT | |
| Quantity limitations | On passenger aircraft/rail: 60 L |
| - | On cargo aircraft only: 220 L |
| ADR | |
| Excepted quantities (EQ) | Code: E1 |
| (= | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| IMDG | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | 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 |

15 Regulatory information

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

| | 5 (extremely hazardous substances): | |
|--------------|---------------------------------------|---------------------|
| None of the | ingredients is listed. | |
| · Section 31 | 3 (Specific toxic chemical listings): | |
| 1330-20-7 | xylene | |
| 100-41-4 | ethylbenzene | |
| 80-62-6 | methyl methacrylate | |
| 872-50-4 | N-methyl-2-pyrrolidone | |
| · TSCA (Tox | ic Substances Control Act): | |
| 1330-20-7 | xylene | ACTIVE |
| 123-86-4 | n-butyl acetate | ACTIVE |
| 100-41-4 | ethylbenzene | ACTIVE |
| 80-62-6 | methyl methacrylate | ACTIVE |
| 868-77-9 | 2-hydroxyethyl methacrylate | ACTIVE |
| 136-53-8 | ZINC 2-ETHYLEXANOATE | ACTIVE |
| 872-50-4 | N-methyl-2-pyrrolidone | ACTIVE |
| | | (Contd. on page 13) |



Page 13/15

Safety Data Sheet acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

| | D) | ontd. of page |
|--------------|---|---------------|
| | n-butyl methacrylate | ACTIV |
| | Solvent naphtha (petroleum), medium aliph. | ACTIV |
| | dibutyItin dilaurate | ACTIV |
| 7447-41-8 | Iithium chloride | ACTIV |
| | Air Pollutants | |
| 1330-20-7 | • | |
| | ethylbenzene | |
| | methyl methacrylate | |
| · Propositio | | |
| | known to cause cancer: | |
| 100-41-4 e | thylbenzene | |
| | known to cause reproductive toxicity for females: | |
| None of the | e ingredients is listed. | |
| | known to cause reproductive toxicity for males: | |
| None of the | e ingredients is listed. | |
| · Chemicals | known to cause developmental toxicity: | |
| 872-50-4 N | I-methyl-2-pyrrolidone | |
| - Carcinoge | nic categories | |
| · EPA (Envir | ronmental Protection Agency) | |
| 1330-20-7 | xylene | 1 |
| 100-41-4 | ethylbenzene | D |
| 80-62-6 | methyl methacrylate | E, N |
| · TLV (Thres | shold Limit Value) | |
| 1330-20-7 | xylene | A |
| 100-41-4 | ethylbenzene | A |
| 80-62-6 | methyl methacrylate | A |
| 77-58-7 | dibutyltin dilaurate | A |
| | (National Institute for Occupational Safety and Health) | |
| · NIOSH-Ca | | |
| | e ingredients is listed. | |
| None of the | • | |



Page 14/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 13) · Hazard pictograms GHS02 GHS07 GHS08 Signal word Warning · Hazard-determining components of labeling: ethylbenzene methyl methacrylate · Hazard statements Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 115



Page 15/15

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/02/2024

Reviewed on 12/02/2024

Trade name: GRRAL9005 2K DEEP BLACK

(Contd. of page 14)

US

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. • Department issuing SDS: Product safety department • Contact: N/A

· Date of preparation / last revision 12/02/2024 / 1.0

 Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international 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 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 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 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 • * Data compared to the previous version altered.