

CERECLOR™ E40 / E40C / E45 / E45C / E50 / E56 / E58 / E60

ACCORDING TO US CFR 1910.1200

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| 1.1 Product identifier | | |
|---|---|--|
| Product Name | CERECLOR™ E40 / E40C / E45 / E45C / E50 / E56 / E58 / E60 | |
| Alternative names | Medium-chain chlorinated paraffins/alkanes, C14-C17, chloro; Alkanes, C14-17, | |
| | chloro; C14-17 chlorinated paraffin (chlorination: 40 - 60%) | |
| CAS No. | 85535-85-9 | |
| 1.2 Relevant identified uses of the subst | ance or mixture and uses advised against | |
| Identified Use(s) | lubricants and lubricant additives, anti-set off and adhesive agent, flame retardant, | |
| | plasticiser in polyvinyl chloride and in paints, extreme pressure additives (metal | |
| | cutting/working fluids), softeners . | |
| | For details on specific grades please refer to technical literature. | |
| Uses Advised Against | As a plasticiser in products for childrens' toys and food contact applications. | |
| 1.3 Details of the supplier of the safety d | lata sheet | |
| Company Identification | INOVYN Americas Inc. | |
| Address of Supplier | 21255A LA Hwy 1 South | |
| | Block 5501 | |
| | Plaquemine | |
| | LA 70764 | |
| | United States | |
| Zip code | 70764 | |
| Telephone: | (+1) (866) 296-0146 | |
| E-mail | sds.ocd@inovyn.com | |
| 1.4 Emergency telephone number | | |
| Emergency Phone No. | +1 866 928 0789 | |
| 2. SECTION 2: HAZARDS IDENTIFICA | TION | |
| | | |
| | | |
| 2.1 Classification of the substance or mi | xture | |
| US CFR 1910.1200 | * Aquatic Acute 1 :Very toxic to aquatic life. | |
| | * Aquatic Chronic 1 :Very toxic to aquatic life with long lasting effects. | |
| | | |
| | * Note: For shipments within the US, it is not mandatory to provide an environmental | |

2.2 Label elements

| | US CFR 1910.1200 |
|--------------|---|
| Product Name | CERECLOR™ E40 / E40C / E45 / E45C / E50 / E56 / E58 / E60 |

classification



| Hazard Pictogram(s) | |
|---|--|
| | * GHS09 |
| *Note: For shipments within the US, it is | not mandatory to display the environmental hazard pictogram on the label. |
| Signal Word(s) | * Warning |
| | *Note: For shipments within the US, it is not mandatory to display the Warning signal word on the label if no environmental classification is going to be applied. |
| Hazard Statement(s) | * H410: Very toxic to aquatic life with long lasting effects. |
| | * Note: For shipments within the US, it is not mandatory to display the environmental |
| | hazard statement H410 on the label. |
| Precautionary Statement(s) | P260: Do not breathe mist/vapors/spray. |
| | P273: Avoid release to the environment. |
| | P280: Wear protective gloves/protective clothing/eye protection/face |
| | protection/hearing protection. |
| | P391: Collect spillage. |
| | P501: Dispose of contents/container to: An approved recycle or waste disposal |
| | facility. |
| Additional label requirements | None. |
| 2.3 Other hazards | |
| | This product does not contain any of the PBT substance, short-chain chlorinated |
| | paraffins (CAS No 061788-76-9). |
| 2.4 Additional Information | |
| | Note: in the EU it is mandatory to include the following classification: |
| | H362: May cause harm to breast-fed children. |
| | P263: Avoid contact during pregnancy and while nursing. |
| | EUH066: Repeated exposure may cause skin dryness or cracking. |
| | |

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| HAZARDOUS | CAS No. | %W/W | Hazard Statement(s) | Hazard Pictogram(s) |
|-------------------------|------------|------|------------------------|---------------------|
| INGREDIENT(S) | | | | |
| Alkanes, C14-17, chloro | 85535-85-9 | >99 | Lact. H362 (EU only) | GHS09 |
| | | | Aquatic Acute 1 H400 | |
| | | | Aquatic Chronic 1 H410 | |



3.2 Mixtures

Not applicable.

4. SECTION 4: FIRST AID MEASURES

| 4.1 Description of first aid measures | | | |
|--|--|--|--|
| Inhalation | Remove patient from exposure, keep warm and at rest. | | |
| Skin Contact | Remove contaminated clothing. Wash skin with soap and water. | | |
| Eye Contact | Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least | | |
| | 10 minutes. Obtain medical attention. | | |
| Ingestion | Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a | | |
| | pint) of water to drink. | | |
| 4.2 Most important symptoms and effects, both acute and delayed | | | |
| | If skin irritation or rash occurs: Get medical advice/attention. | | |
| 4.3 Indication of any immediate medical attention and special treatment needed | | | |
| | IF exposed or concerned: Get medical advice/attention. Treat symptomatically. | | |

5. SECTION 5: FIRE-FIGHTING MEASURES

| 5.1 Extinguishing Media | | |
|---|--|--|
| Suitable Extinguishing Media | Normal extinguishing media. Water spray, dry powder or carbon dioxide. | |
| Unsuitable Extinguishing Media | None. | |
| 5.2 Special hazards arising from the substance or mixture | | |
| | Prolonged heating at temperatures in excess of 70 Deg C (158 F) or heating above | |
| | 200 Deg C (390 F) for short periods of time will result in decomposition and | |
| | liberation of hydrogen chloride. | |
| 5.3 Advice for firefighters | | |
| | A self contained breathing apparatus and suitable protective clothing should be worn | |
| | in fire conditions. | |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

| | Wear suitable gloves and eye/face protection. |
|--|--|
| 6.2 Environmental precautions | |
| | Do not allow to enter drains, sewers or watercourses. |
| 6.3 Methods and material for containment and cleaning up | |
| | Caution - spillages may be slippery. Adsorb spillages onto sand, earth or any |
| | suitable adsorbent material. Transfer to a container for disposal or recovery. |
| 6.4 Reference to other sections | |
| | See Also Section 8, 13. |
| 6.5 Additional Information | |
| | Spillages or uncontrolled discharges into watercourses must be alerted to the |
| | appropriate regulatory body. |



7. SECTION 7: HANDLING AND STORAGE

| 7.1 Precautions for safe handling | | | |
|--|--|--|--|
| | Avoid contact with skin and eyes. Provide adequate ventilation where operational | | |
| | procedures demand it. Do not allow to enter drains, sewers or watercourses. | | |
| 7.2 Conditions for safe storage, including | g any incompatibilities | | |
| | Keep container dry. Keep away from direct sunlight. | | |
| | Keep only in original container at temperatures not exceeding 40 Deg C (104 F). | | |
| | Storage vessels should be made of lined mild steel in accordance with the advice | | |
| | given in CERECLOR™ Bulk Storage and Handling brochure. Total storage life at | | |
| | recommended conditions: 2 years if stored in accordance with advice given above. | | |
| Storage temperature | Ambient. | | |
| Storage life | Stable under normal conditions. | | |
| Incompatible materials | Strong oxidizing agents. | | |
| 7.3 Specific end use(s) | | | |

See Section: 1.2

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters 8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned. 8.2 Exposure controls 8.2.1. Appropriate engineering controls Provide adequate ventilation where operational procedures demand it. Use appropriate containment to avoid environmental contamination. 8.2.2. Personal protection equipment Eye Protection Wear protective eye glasses for protection against liquid splashes. Skin protection Good working practice suggests gloves and goggles should be worn. The following materials are suitable for protective gloves (permeation time >= 8 hours): Nitrile rubber. Check with protective equipment manufacturer's data. Respiratory protection Wear suitable respiratory protective equipment if exposure to mist is likely. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate. Check with protective equipment manufacturer's data. Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.



9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | ••• |
|---|---|
| Appearance | Liquid. |
| | Color : Colorless. |
| Odor | Slight. |
| Odor Threshold | Not known. |
| рН | Not applicable. |
| Melting Point/Freezing Point | Not known. |
| Initial boiling point and boiling range | > 390 °F (>200 °C) (Decomposes below boiling point.) |
| Flash Point | 392 °F (200 °C) @ 1013 hPa |
| Evaporation Rate | Not known. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive | Non-flammable. |
| limits | |
| Vapor pressure | practically non-volatile. 0.00027 Pa @ 68 °F (20°C) |
| Vapor density | Not known. |
| Density (g/ml) | 1.10-1.38 @ 77 °F (25°C) |
| Relative density | Not known. |
| Solubility(ies) | Solubility (Water) : Practically insoluble. 0.027 mg/l @ 68 °F (20°C) |
| | Solubility (Other) : Soluble in most aromatic hydrocarbons, chlorinated solvents, |
| | esters and ketones. |
| Partition coefficient: n-octanol/water | Log Kow (Pow): 7 @ 68 °F (20°C) |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (°C) | ~ 392 °F (~200 °C) |
| Viscosity | 25 – 1200 mm²/s @ 104°F (40°C) |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| 9.2 Other information | |
| Pour Point (°C) | -40 °F to 68°F (-40°C to +20°C) |
| | |

9.1 Information on basic physical and chemical properties

10. SECTION 10: STABILITY AND REACTIVITY

| 10.1 Reactivity | |
|---|---|
| | Non-reactive . |
| 10.2 Chemical Stability | |
| | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | |
| | Can react with alkali metals and alkaline earth metals which have a strong affinity for |
| | chlorine. Can react with iron, zinc and aluminum at high temperatures leading to |
| | decomposition. |



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| 10.4 Conditions to avoid | |
|---------------------------------------|---|
| | Heat and direct sunlight. Prolonged heating at temperatures in excess of 70 Deg C |
| | (158 F) or heating above 200 Deg C (390 F) for short periods of time will result in |
| | decomposition and liberation of hydrogen chloride. |
| | Chlorinated paraffins tend to soften or swell most rubbers. |
| 10.5 Incompatible materials | |
| | Strong oxidizing agents. |
| 10.6 Hazardous decomposition products | 3 |
| | Thermal decomposition will evolve: Hydrogen chloride . |

11. SECTION 11: TOXICOLOGICAL INFORMATION

This health hazard assessment is based on information available on similar products.

| 11.1 Information on toxicological effects | |
|---|--|
| Acute toxicity - Ingestion | Not classified. |
| | Low oral toxicity. |
| | LD50 (rat) : >2000 mg/kg bw |
| Acute toxicity - Skin Contact | Not classified. |
| | Anticipated to have low dermal toxicity. |
| | The acute dermal LD50 of a C10-13 chlorinated paraffin (52% chlorinated) in rats and |
| | a C12 chlorinated paraffin (59% chlorinated) in rabbits is >2g/kg bw. |
| Acute toxicity - Inhalation | Not classified. |
| | Unlikely to be hazardous by inhalation. |
| | No deaths were seen in acute inhalation studies in rats exposed to air containing a |
| | C12 chlorinated paraffin (59% chlorination) at 3.3 mg/l or a 50% chlorinated short |
| | chain chlorinated paraffin (unspecified chain length) at 48 mg/l for 1 hr. |
| Skin corrosion/irritation | Not classified. |
| | Repeated exposure may cause skin dryness or cracking. |
| | Slight skin irritation reported in two studies conducted according to OECD Guideline |
| | 404 using undilute C14-17 chlorinated paraffins (40 & 52% chlorination - containing |
| | 1% epoxy stabiliser). |
| Serious eye damage/irritation | Not classified. |
| | Slight eye irritation reported in two studies conducted according to OECD Guideline |
| | 405 using undilute C14-17 chlorinated paraffins (40 & 52% chlorination - containing |
| | 1% epoxy stabiliser). |
| Skin sensitization data | Not classified. |
| | It is not a skin sensitizer in animal tests. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| | Not mutagenic to bacteria or in in-vivo mouse bone marrow micronucleus assays. |
| Carcinogenicity | Not classified. |
| | MCCPs have not been tested for carcinogenicity. |
| | Chlorinated paraffins, as a group of chemicals are not genotoxic. Their lack of |



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| | genotoxic activity together with the results of other studies leads us to conclude that |
|--------------------------|---|
| | chlorinated paraffins are unlikely to present a carcinogenic hazard to man under |
| | normal conditions of handling and use. |
| Reproductive toxicity | Not classified. |
| | No reported effects on fertility at doses up to 400 mg/kg/day. |
| | No effects in conventional development toxicity studies with doses up to 5000 |
| | mg/kg/day (rat) and 100 mg/kg/day (rabbit). Mortality due to internal haemorrhaging |
| | has been seen in newborn rats, reared by dams fed on high doses of a similar |
| | chlorinated paraffin. |
| Lactation | The EU has made the following classification mandatory in the EU even though this |
| | ruling has been challenged by Industry Toxicologist Experts: H362: May cause harm |
| | to breast-fed children. There is no such mandatory requirement in the USA. |
| STOT - single exposure | Not classified. |
| | Respiratory irritation : There are no reports relating to this endpoint despite the |
| | widspread use of this substance. |
| STOT - repeated exposure | Not classified. |
| | Repeated exposure to high levels may produce liver and kidney damage. Chronic |
| | ingestion studies in animals have shown that repeated doses of a representitive |
| | chlorinated paraffin (C14-17, 52% chlorine) gave no adverse effects at doses 23 |
| | mg/kg/day (90 day study). Slight effects on the liver were seen at doses >360 |
| | mg/kg/day. These effects occur after the administration of high oral doses of C14- |
| | C17 chlorinated paraffins to the female rat, a situation that would not arise under any |
| | reasonably forseeable circumstances of human exposure. |
| Aspiration hazard | Not an aspiration hazard . |
| 11.2 Other information | |
| | Not known. |

12. SECTION 12: ECOLOGICAL INFORMATION

A representative C14-17 chlorinated paraffin has been shown to be toxic to daphnia in laboratory studies. It showed a low level of toxicity to another aquatic invertebrate species (gammarus) and to fish and algae.

| 12.1 Toxicity | |
|------------------------------------|--|
| | Very toxic to aquatic life with long lasting effects. |
| | M-factor (Acute): 100 |
| | M-factor (Chronic): 10 |
| | |
| Toxicity - Aquatic invertebrates | EC50 (48 hour) : 0.006 mg/l (Daphnia magna) |
| | Crustacean (Gammarus pulex) 96 hr - LC50 = >1.0 mg/l |
| | NOEC (21 days) : 0.01 mg/l (Daphnia magna) |
| | LOEC (21 days) : 0.018 mg/l (Daphnia magna) |
| | NOEC (60 Days) : 0.22 mg/l Crustacean (Mytilus edulis) |
| Toxicity - Fish | Alburnus alburnus (bleak) 96hr - LC50 = >5000 mg/l |
| Toxicity - Algae | EC50 (Biomass) (96 hour) : >3.2 mg/l (Selenastrum capricornutum) |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |



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| 12.2 Persistence and Degradation | |
|----------------------------------|---|
| 12.2 Tersistence and Degradation | Concentrations in the atmosphere are likely to be very small due to low volatility. |
| | Estimated atmospheric half life is 1 - 2 days. |
| | Biodegredation in soil: Studies conducted on C14.5 & C15.4 (average C chain |
| | length) with 43.5% & 50% chlorination showed 57% and 51% degradation of the test |
| | substance after 36 hours. |
| | Biodegradation in water and sediments: Simulation tests conducted on two C16 |
| | chlorinated paraffins (containing 35% Cl2 & 58% Cl2) gave a half-life (DT50) of 12 |
| | days and 58 days in freshwater sediment respectively. |
| 12.3 Bioaccumulative potential | days and 50 days in neshwater sedment respectively. |
| | The product has potential for limited bioaccumulation. |
| | Bioconcentration factor (BCF) : <2000 l/kg |
| | Biomagnification factor (BMF) : <1 |
| 12.4 Mobility in soil | |
| | The product is predicted to have low mobility in soil. |
| | The product is predicted to have low mobility in soli. |
| 12.5 Other adverse effects | |
| | Not known. |
| 13. SECTION 13: DISPOSAL CONSID | DERATIONS |
| | |
| 13.1 Waste treatment methods | |
| 10.1 Wable realment methods | This material and/or its container must be disposed of as hazardous waste. Do not |
| | discharge into drains or the environment, dispose to an authorized waste collection |
| | point. |
| 13.2 Additional Information | |
| | Disposal should be in accordance with local, state or national legislation. |
| | |
| 14. SECTION 14: TRANSPORT INFO | RMATION |
| | |
| 14.1 UN number | |
| UN No. | 3082 |
| 14.2 UN proper shipping name | |
| UN proper shipping name | |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| | (CHLORINATED PARAFFINS (C14-17)) |
| | |
| DOT | CHLORINATED PARAFINS (C14-17), with less than 1% shorter chain length |
| 14.3 Transport hazard class(es) | |
| ADR/RID Class | 9 |
| IMDG Class | 9 |
| DOT Class | Not classified as dangerous for transport. |
| IMDG EMS | Not applicable |
| ICAO/IATA | |
| Excepted Quantities | E1 |
| | |



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| Passenger and Cargo Aircraft Limited | Y964 |
|--|--|
| Quantities Packing Instructions | |
| Passenger and Cargo Aircraft Limited | 30Kg |
| Quantities Max net Qty | |
| Passenger and Cargo Aircraft Packing | 964 |
| Instructions | |
| Passenger and Cargo Aircraft Max net | 450L |
| Qty | |
| Cargo Aircraft Packing Instructions | 964 |
| Cargo Aircraft Max net Qty | 450L |
| Special Provisions | A97, A158 |
| Emergency Response Guidebook (ERG) | 9L |
| Code | |
| ADR Classification Code | M6 |
| ADR HIN | 90 |
| ADR Transport Category | 3 |
| Tunnel Restriction Code | E |
| Emergency Action Code | •3Z |
| APP Advice on Additional Personal | Not applicable |
| Protection (APP) | |
| 14.4 Packing group | |
| Packing group | III |
| DOT Packing group | Not classified as dangerous for transport. |
| Labels | 9 |
| | |
| | |
| | 9 |
| Special Provisions | 274 335 601 |
| Limited Quantities | 5 L |
| Excepted Quantities | E1 |
| Mixed Packing Instructions for Packages | P001 IBC03 LP01 R001 |
| Special Packing Provisions for Packages | |
| Mixed Packing Instructions for Packages | |
| 14.5 Environmental hazards | |
| Environmental hazards | |
| IMDG | Classified as a Marine Pollutant. |
| DOT | Not classified as a Marine Pollutant. |
| 14.6 Special precautions for user | |
| Special precautions for user | Not known. |
| 14.7 Transport in bulk according to Anne | ex II of Marpol and the IBC Code |
| Product Name | CHLORINATED PARAFFINS (C14-17) |
| Ship Type | 1 |
| Pollution Category | х |
| Packing Instructions for Portable Tanks | T4 |
| | |



| Special Provisions for Portable Tanks | TP1 TP29 |
|--|----------------|
| Tank Code for Tanks | LGBV |
| Special Provisions for Tanks | Not applicable |
| Vehicle for Tank Carriage | AT |
| Special Provisions for Carriage - | V12 |
| Packages | |
| Special Provisions for Carriage - Bulk | Not applicable |
| Special Provisions for Carriage - Loading, | CV13 |
| Unloading and Handling | |
| Special Provisions for Carriage - | Not applicable |
| Operation | |

15. SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| · · · · · · · · · · · · · · · · · · · | |
|---|--|
| Toxic and hazardous substances (29 | Not listed |
| CFR 1910; Subpart Z) | |
| National emission standards for | Not listed |
| hazardous air pollutants (40 CFR 61.01) | |
| SARA Title III Section 313 | Not listed |
| | SARA SECTIONS 311/312 (40CFR370.21): |
| | ACUTE: N |
| | CHRONIC: N |
| | FIRE: N |
| | REACTIVE: N |
| | SUDDEN RELEASE: N |
| | OSHA PROCESS SAFETY (29CFR1910.119): N |
| TSCA (Toxic Substance Control Act) | TSCA section 12(b) (40 CFR part 707, subpart D): |
| | Export Notification required. |
| | Notification name: Alkanes, C14-17, chloro |
| CAA 602 - Ozone Depleting Substances | Not listed |
| (ODS) | |
| CERCLA | Not listed |
| | |
| NFPA ratings: | Health 0, Flammability 0, Reactivity 0 |
| | |
| | |





| 15.2 US State Regulations | |
|---|------------|
| State Right to Know Lists | |
| Proposition 65 (California) | Not listed |
| Minnesota | Not listed |
| New Jersey | Not listed |
| Pennsylvania | Not listed |
| Rhode Island | Not listed |
| | |
| 15.3 Other | |
| OSPAR List of Chemicals for Priority | Not listed |
| Action | |
| OSHA (List of Highly Hazardous | Not listed |
| Chemicals, Toxics and Reactives) | |
| NTP (National Toxicology Program) | Not listed |
| IARC (International Agency for Research | Not listed |
| on Cancer) | |
| 15.4 Inventory Status | |

Listed in: Australia (AICS), Canada (DSL/NDSL), China (IECSC), European Union (EINECS/ELINCS), Japan (ENCS), New Zealand Inventory (NZIoC), Philippines (PICCS), South Korea (KECI), Taiwan (NECI), Turkey. Consent Order: United States (TSCA)

| 16. SECTION 16: OTHER INFORMATION | | |
|---|-------------------------------|--|
| The following sections contain revisions or new statements: | | 12.5, 15.1, 15.4 |
| LEGEND | | |
| Hazard Pictogram(s) | ¥2 | |
| | GHS09 | |
| Hazard Statement(s) | H362: May cause harm to b | reast-fed children. |
| | H400: Very toxic to aquatic l | life. |
| | H410: Very toxic to aquatic l | ife with long lasting effects. |
| Precautionary Statement(s) | P201: Obtain special instruc | tions before use. |
| | P260: Do not breathe mist/v | apors/spray. |
| | P263: Avoid contact during | pregnancy and while nursing. |
| | P264: Wash hands and exp | osed skin thoroughly after handling. |
| | P270: Do not eat, drink or sr | moke when using this product. |
| | P273: Avoid release to the e | environment. |
| | P280: Wear protective glove | es/protective clothing/eye protection/face |
| | protection/hearing protectior | ı. |
| | | |



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| | P308+P313: IF exposed or concerned: Get medical advice/attention. |
|---------------------------|--|
| | P391: Collect spillage. |
| | P501: Dispose of contents/container to: An approved recycle or waste disposal |
| | facility. |
| Acronyms | ADN : European Agreement concerning the International Carriage of Dangerous |
| | Goods by Inland Waterways |
| | ADR : European Agreement concerning the International Carriage of Dangerous |
| | Goods by Road |
| | CAS : Chemical Abstracts Service |
| | CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of |
| | substances and mixtures |
| | DNEL : Derived No Effect Level |
| | DOT : Department Of Transport |
| | EC : European Community |
| | EINECS : European Inventory of Existing Commercial Chemical Substances |
| | IATA : International Air Transport Association |
| | IBC : Intermediate Bulk Container |
| | ICAO : International Civil Aviation Organization |
| | IMDG : International Maritime Dangerous Goods |
| | PBT : Persistent, Bioaccumulative and Toxic |
| | PNEC : Predicted No Effect Concentration |
| | REACH : Registration, Evaluation, Authorization and Restriction of Chemicals |
| | RID : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| | STOT : Specific Target Organ Toxicity |
| | UN : United Nations |
| | vPvB : very Persistent and very Bioaccumulative |
| Key literature references | Chemical Safety Report, Medium-chain chlorinated paraffins/alkanes, C14-C17, |
| | chloro (13/9/2010) |
| | GESTIS - database on hazardous substances |
| Disclaimers | Information contained in this publication or as otherwise supplied to Users is believed |
| | to be accurate and is given in good faith, but it is for the Users to satisfy themselves |
| | of the suitability of the product for their own particular purpose. INOVYN Americas |
| | Inc.gives no warranty as to the fitness of the product for any particular purpose and |
| | any implied warranty or condition (statutory or otherwise) is excluded except to the |
| | extent that exclusion is prevented by law. INOVYN Americas Inc.accepts no liability |
| | for loss or damage (other than that arising from death or personal injury caused by |
| | defective product, if proved), resulting from reliance on this information. Freedom |
| | under Patents, Copyright and Designs cannot be assumed. |
| Trademarks Copyright | CERECLOR™ is a trade mark, the property of INOVYN ChlorVinyls Limited. |
| | INOVYN [™] is a trade mark, the property of INOVYN ChlorVinyls Limited. |
| | INEOS™ is a trade mark, the property of INEOS Capital Limited. |
| www.inovyn.com | |