Print date: 11.10.2017
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SAFETY DATA SHEET

According to Regulation (EC) n º 1907/2006 and its amendments

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** C-THANE RPS HS-AL
· **Component:** RESIN

· **Article number:** 7P-607.I515
· **Version number:** 6
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the mixture:** Enamel

· **1.3 Details of the supplier of the safety data sheet**

· **Identification of the company/undertaking:**

CIN - Corporação Industrial do Norte, S.A. - Av de Dom Mendo, nº 831 (antes EN13 km6)
4474-009 Maia - Portugal - Tel. + (351) 22 940 5000 - customerservice@cin.com

CIN Valentine, S.A.U. - P. I. Can Milans - Riera Seca, 1 - 08110 Montcada i Reixac - España
Tel. + (34) 93 565 66 00 - customerservice.es@cin.com

CIN Celliose, S.A. - Chemin de la Verrerie - BP 58 - 69492 Pierre Bénite Cedex - France
Tel. + (33) (0) 472 397 777 - customerservice.fr@cin.com

· **Further information obtainable from:**
E-mail address of the competent person responsible for the Safety Data Sheet: msds@cin.com

· **1.4 Emergency telephone number:**

Portugal:
- Company: + (351) 22 940 5000
- Antipoison Information Center: + (351) 808 250 143
- Emercency Service (24 hours): + (351) 21 352 4765
Spain:
- Company + (34) 93 565 66 00
France:
- Company ORFILA: + (33) 01 45 42 59 59

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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Trade name: C-THANE RPS HS-AL

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· ***Hazard pictograms***

GHS02

· ***Signal word*** *Warning*
· ***Hazard statements***
Flammable liquid and vapour.
Harmful to aquatic life with long lasting effects.
· ***Precautionary statements***
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep container tightly closed.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with regional/national regulations.
· ***Additional information:***
Repeated exposure may cause skin dryness or cracking.
Contains fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compds. with amides from diethylenetriamine and tall-oil fatty acids. May produce an allergic reaction.
· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

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SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 123-86-4 *Reg.nr.: 01-2119485493-29*	*n-butyl acetate* *Flam. Liq. 3, H226; STOT SE 3, H336*	*10-25%*
CAS: 7429-90-5 *Reg.nr.: 01-2119529243-45*	*aluminium powder (stabilised)* *Flam. Sol. 2, H228; Water-react. 2, H261*	*10-25%*
Reg.nr.: 01-2119455851-35	*Hydrocarbons C9 aromatics* *Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336*	*10-25%*
CAS: 1330-20-7 *Reg.nr.: 01-2119488216-32*	*xylene (mixture of isomers)* *Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335*	*2.5-10%*
CAS: 64742-48-9 *Reg.nr.: 01-2119463258-33*	*hydrocarbures, C9-C11, n-alcanes, isoalcanes, cycliques, <2% aromatiques* *Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336*	*2.5-10%*

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Trade name: C-THANE RPS HS-AL

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CAS: 64742-95-6 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5-10%
CAS: 108-65-6 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	2.5-10%
CAS: 162627-17-0	fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1, H317	≤0.5%
CAS: 222716-38-3	Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compds. with amides from diethylenetriamine and tall-oil fatty acids STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≤0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** It might be necessary to use self-contained respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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· **6.4 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.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 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.
· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
CAS: 1330-20-7 xylene (mixture of isomers)	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk, BMGV
CAS: 108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

· **DNELs**		
Hydrocarbons C9 aromatics		
Oral	DNEL Long term systemic effects	11 mg/kg/day (consumer)
Dermal	DNEL Long term systemic effects	11 mg/kg bw/24h (consumer)
		25 mg/kg bw/24h (worker)
Inhalative	DNEL Long term systemic effects	32 mg/m3 (consumer)
		150 mg/m3 (worker)

· **Ingredients with biological limit values:**	
CAS: 1330-20-7 xylene (mixture of isomers)	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
· **Respiratory protection:** Not required.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	According to product specification
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	127 ℃
· **Flash point:**	23 ℃
· **Flammability (solid, gas):**	Not applicable.
· **Ignition temperature:**	240 ℃
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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SAFETY DATA SHEET

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Trade name: C-THANE RPS HS-AL

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· **Explosion limits:**	
Lower:	0.7 Vol %
Upper:	10.4 Vol %
· **Vapour pressure at 20 ℃:**	10.7 hPa
· **Density at 20 ℃:**	1.078 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Solids content (w/w):**	51.1 %
· **9.2 Other information:**	No further relevant information available.

SECTION 10: Stability and reactivity

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

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
CAS: 123-86-4 n-butyl acetate		
Oral	LD50	14000 mg/kg (rat)
Inhalative	LC50/4 h	>21.0 mg/l (rat)
Hydrocarbons C9 aromatics		
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50	>3160 mg/kg (rabbit)
CAS: 1330-20-7 xylene (mixture of isomers)		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	12126 mg/kg (rabbit)
Inhalative	LC50/4 h	27.124 mg/l (rat)
CAS: 64742-48-9 hydrocarbures, C9-C11, n-alcanes, isoalcanes, cycliques, <2% aromatiques		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	> 3160 mg/kg (rabbit)

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Trade name: C-THANE RPS HS-AL

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Inhalative	LC50/4 h	> 4951 mg/l (rat)
CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50	>3160 mg/kg (rabbit)
CAS: 108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8500 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
CAS: 162627-17-0 fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine		
Oral	LD50	> 10000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
Hydrocarbons C9 aromatics	
EC50/48 h	3.2 mg/l (daphnia magna)
EC50/72 h	2.6-2.9 mg/l (algae)
LC50/96 h	9.2 mg/l (fish)
CAS: 1330-20-7 xylene (mixture of isomers)	
EC0/0,5 h	1 mg/l (daphnia magna)
EC50/72 h	2.2 mg/l (scenedesmus subspicatus (algae))
LC50/96 h	2.6 mg/l (fish)
CAS: 64742-48-9 hydrocarbures, C9-C11, n-alcanes, isoalcanes, cycliques, <2% aromatiques	
EC50/48 h	> 1000 mg/l (daphnia magna)
EC50/72 h	> 1000 mg/l (algae)
LC50/96 h	> 1000 mg/l (fish)
CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.	
EC50/48 h	3.2 mg/l (daphnia magna)
EC50/72 h	2.6-2.9 mg/l (algae)
LC50/96 h	9.2 mg/l (fish)
	9.2 mg/l (oncorhynchus mykiss (rainbow trout))
CAS: 108-65-6 2-methoxy-1-methylethyl acetate	
EC50/48 h	> 500 mg/l (daphnia magna)

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LC50/96 h	161 mg/l (pim)
CAS: 162627-17-0 fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	
EC50/48 h	> 100 mg/l (daphnia magna)
LC50/48 h	> 150 mg/l (fish)
EL50r/72 h	> 100 mg/l (pseudokirchneriella subcapitata (algae))

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (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.
Harmful to aquatic organisms
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, ADN, IMDG**	Void
· **IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR, ADN, IMDG**	Void
· **IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR, ADN, IMDG**	
· **Class**	Void

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· **IATA**

· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG**	Void
· **IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Not applicable.
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

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SECTION 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.

· **Relevant phrases**
H226 Flammable liquid and vapour.
H228 Flammable solid.
H261 In contact with water releases flammable gases.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

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H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**
CIN - Corporação Industrial do Norte, S.A.
Av de Dom Mendo, nº 831 (antes EN13 km6) - 4474-009 Maia - Portugal
Capital Social € 25.000.000 - C.R.C. da Maia / NIPC: 500 076 936
· **Contact:** *See adress in section 1 os this MSDS*
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Sol. 2: Flammable solids – Category 2
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· **** Data compared to the previous version altered.***