

1 IDENTIFICATION OF THE PREPARATION AND COMPANY

1. **Product Name: Corroless RF 65 Hardener**
 Product Code: 4054991
 Revision: 6.00
 Issue Date: 08/01/15
2. Intended Use: Industrial Hardener (polyurethane finishes)
 Mix 1:9 by Volume with 2850TCL or 2850TVL base

1. Supplier:

CORROLESS Corrosion Control
 Kelvin Way,
 West Bromwich
 West Midlands
 B70 7JZ, United Kingdom
 Telephone: +44 (0)121 525 5665
 Facsimile: +44(0)121 553 2787
 (Not 24Hrs)
 Email: contact@corroless.com
 Website: www.corroless.com

2 HAZARDS IDENTIFICATION

Flammable
 May cause sensitisation by skin contact
 Harmful by inhalation
 Contains isocyanates - See information supplied by the manufacturer
 Irritating to the respiratory system
 Harmful to aquatic organisms: may cause long-term adverse effects in the aquatic environment

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name Of Substance & [EINECS No]	Concentration	Symbol	R Phrases
n-Butyl acetate[204-658-1]	1-10 %		R10-66-67
Hexamethylene diisocyanate[212-485-8]	<1 %	T	R23-36/37/38-42/43-P91
Hexamethylene diisocyanate, oligomers	50- 100%	Xi	R20-37-43
Aromatic hydrocarbon solvent, C9 - C10[265-199-0]	1-10 %	Xn	R10-37- 51/53-65-66-67

4 FIRST AID MEASURES

General

- * In all cases of doubt, or when symptoms persist, seek medical attention.
- * If unconscious place in recovery position, give nothing by mouth.

Inhalation

- * Remove to fresh air.
- * If breathing is irregular or stopped, administer artificial respiration.

Eye Contact

- * Immediately irrigate copiously with clean water for at least 10 minutes.

Skin Contact

- * Remove contaminated clothing.
- * Wash skin thoroughly with soap and water or recognised skin cleaner.
- * Do NOT use solvents or thinners.

Ingestion

- * If swallowed obtain immediate medical attention.
- * Keep at rest.
- * Do NOT induce vomiting.

5 FIRE FIGHTING MEASURES

- * Extinguishing Media: alcohol resistant foam, CO₂, powder or water fog.
- * Never use water jets or water from buckets etc. to fight fire.
- * Closed packages may be cooled with water spray.
- * Fire will produce dense black smoke.
- * Exposure to decomposition products may cause a health hazard.
- * Appropriate self contained breathing apparatus may be required.
- * Cool closed containers exposed to fire with water.
- * Do not allow run-off from fire-fighting to enter drains or water courses.

6 ACCIDENTAL RELEASE MEASURES

- * Exclude sources of ignition.
- * Ventilate the area.
- * Exclude non-essential personnel.
- * Avoid breathing vapours.
- * Contain/collect spillage with non-combustible absorbent materials.
- * Contaminated area should be cleaned with a decontaminant.

7 HANDLING AND STORAGE

Handling

- * Persons with history of asthma, allergies, chronic/recurrent respiratory disease, or skin sensitisation problems should NOT be employed where this product is used unless under appropriate medical supervision.
- * Vapours are heavier than air & may spread along floors.
- * Keep the container tightly closed.
- * Atmospheric humidity or water may result in pressurisation, take care when re-opening partly used containers.
- * Isolate from sources of heat, sparks and open flame.
- * Avoid skin and eye contact/inhalation of vapour and mist.
- * The Manual Handling Operation Regulations apply.
- * Guide pack weight: [5 Ltr= 7 Kgs] [20 Ltr= 26 Kgs] [25 Ltr= 32 Kgs]

Storage

- * Dangerous Substances & Explosive Atmospheres Regs apply.
- * HSE guidance note: Storage of Packaged Dangerous Substances HS(G)71 should be observed.
- * Observe the label precautions.
- * Separate from oxidising agents, alkali, acid, amines, alcohols and water.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- * Persons with a history of skin sensitisation problems should be employed in processes in which this product is used only under appropriate medical supervision.

Engineering Measures

- * Provide adequate ventilation.
 - * Spray in booths/enclosures with sufficient ventilation to prevent mist escaping to surrounding area.
 - * Respiratory protective equipment should be worn by spray booth operators.
- Workplace Exposure Limits (WEL's) - Expressed as parts per million if available, else milligrams/cubic metre(m).
- * Those marked "REC" are unofficial limits provided for guidance only.

Substance	VIR	8hr TWA	15 Min STEL	Type	Skin	Notes
n-Butyl acetate	V	150.000	200.000	WEL	N	
Hexamethylene diisocyanate	V	0.02m	0.07m	WEL	N	SEN asNCO
Aromatic hydrocarbon solvent, C9 - C10	V	50.000	240.00m	REC	N	
Inhalable Dusts	I	10.000		WEL	N	
Respirable Dusts	R	4.000		WEL	N	

V=Vapour, I=Inhalable dust, R=Respirable dust

Respiratory Protection

- * Air fed respiratory protection should be worn when product sprayed.
- * If dry flatting unavoidable use air-fed respiratory protective equipment.

Hand, Eye, Skin Protection

- * Equipment conforming to Use of PPE Regulations should be worn.
- * COSHH Regulations apply.

9 PHYSICAL AND CHEMICAL PROPERTIES

- a) Physical State : Liquid
- b) Flash Point : Between 21 & 32°C
- c) Specific Gravity : 1.12 ± 0.1
- d) Vapour Density : Heavier Than Air.
- e) Solubility in Water : Immiscible with Water

10 STABILITY AND REACTIVITY

- * Stable under recommended storage and handling conditions.
- * Decomposition products are carbon monoxide , carbon dioxide, smoke , hydrogen cyanide, amines, alcohols and oxides of nitrogen.
- * Keep away from oxidising agents, alkali, acid, amine, water and alcohols.

11 TOXICOLOGICAL INFORMATION

- * No data available on product itself, however: -
- * COSHH requires that persons exposed to respiratory sensitisers, are subject to appropriate health surveillance.
- * Employees should be provided with a copy of the HSE publication 'Breath Freely' (IND(G) 172L) containing information on respiratory sensitisers.
- * Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitisation of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.
- * Substances used within this product have irritant properties.
- * Prolonged or repeated contact with skin/mucous membrane may result in symptoms such as redness, blistering or dermatitis.
- * Splashes in eyes may cause irritation.
- * Inhalation of droplets/aerosols may irritate respiratory tract.
- * Ingestion may lead to severe respiratory difficulties, stimulation of central nervous system and in extreme cases unconsciousness.
- * Cases of allergic skin reaction have been observed.
- * Repeated or prolonged contact may result in non-allergic contact dermatitis and absorption through the skin.

12 ECOLOGICAL INFORMATION

- * Air Pollution Control or Integrated Pollution Control regulations made under the Environmental Protection Act may apply.
- * Do not allow to enter drains or water courses.
- * This product contains a substance which is :-
R51 - Toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS




- * In accordance with Control of Pollution Act and Environmental Protection Act.

14 TRANSPORT INFORMATION

	CDG- CPL	ADR	IMDG
Class Number	3	3	3
Subsidiary Hazard Code	NUL	NUL	NUL
Packing Group	III	III	III
Tunnel Codes / EmS Codes		(D/E)	F-E;S-E
Proper Shipping Name	Paint		
U.N. Number	1263		
Marine Pollutant : No			

15 REGULATORY INFORMATION

* Classified and labelled for supply in accordance with the Chemicals (Hazard Information and Packaging) Regulations as follows:-

HEALTH	Xn, Xi Harmful & Irritant	
PHYSICO-CHEMICAL	F- Flammable	
ENVIRONMENT	Not Classified	

R10 Flammable

R43 May cause sensitisation by skin contact

R20 Harmful by inhalation

P91 Contains isocyanates - See information supplied by the manufacturer

R37 Irritating to the respiratory system

R52/53 Harmful to aquatic organisms: may cause long-term adverse effects in the aquatic environment

S23c Do not breathe vapour or spray mist

S42 During spraying wear suitable respiratory equipment

S18 Handle and open container with care

S24 Avoid contact with skin

S37 Wear suitable gloves

* The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by health and safety legislation.

16 OTHER INFORMATION

* Do not use for purposes other than those shown in Section 1 without referring to the supplier.