

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

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

- **Product identifier**
- **Trade name: Rawn Plas-T-Pair Liquid**
- **Relevant identified uses of the substance or mixture and uses advised against**
Liquid portion of Plas-T-Pair repair system
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cortec Corporation
4119 White Bear Parkway
St. Paul, MN 55110 USA
Phone (651) 429-1100
Fax (651) 429-1122
- **Information department:**
Product safety department.
info@cortecvci.com
- **Emergency telephone number:** Chemtrec (for spill, leak, fire exposure or accident): 1-800-424-9300

2 Hazards identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a carcinogenic effect.



Irritant

Irritating to respiratory system and skin. May cause sensitization by skin contact.



Highly flammable

Highly flammable.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 1)

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS02, GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
methyl methacrylate
N,N-dimethylaniline
- **Hazard statements**
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see on this label).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** Void
- **Classification system**
- **NFPA ratings (scale 0-4)**



- **HMIS rating system (0-4)**

HEALTH	2	Health = *2
FIRE	3	Flammability = 3
REACTIVITY	2	Reactivity = 2

- **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:**

CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Xi R37/38-43; F R11 Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
-----------------------------------	--	---------

(Contd. on page 3)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 2)

 CAS: 121-69-7
 EINECS: 204-493-5

 N,N-dimethylaniline
 T R23/24/25; Xn R40; N R51/53
 Carc. Cat. 3

2,5-10%

Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351

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

4 First aid measures

- **Description of first aid measures**
- **General information**
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 on 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** Immediately call a 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.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**


 CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents**
Water.
Water with full jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- **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.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 3)

- **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.
Do not flush with water or aqueous cleansing agents
- **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.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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 item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

80-62-6 methyl methacrylate (50-100%)

PEL	410 mg/m ³ , 100 ppm
REL	410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm
SEN	

121-69-7 N,N-dimethylaniline (2.5-10%)

PEL	25 mg/m ³ , 5 ppm Skin
-----	--------------------------------------

(Contd. on page 5)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 4)

REL	Short-term value: 50 mg/m ³ , 10 ppm Long-term value: 25 mg/m ³ , 5 ppm Skin
TLV	Short-term value: 50 mg/m ³ , 10 ppm Long-term value: 25 mg/m ³ , 5 ppm Skin; BEI-M

· Ingredients with biological limit values:
121-69-7 N,N-dimethylaniline (2.5-10%)

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
-----	---

· **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.
- 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
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Clear

· **Odor:** Acrid

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -48 °C (-54 °F)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 5)

Boiling point/Boiling range:	101 °C (214 °F)
· Flash point:	10 °C (50 °F)
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	430 °C (806 °F)
· 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:	2.1 Vol %
Upper:	12.5 Vol %
· Vapor pressure at 20 °C (68 °F):	47 hPa (35 mm Hg)
· Density at 20 °C (68 °F):	0.9406 g/cm ³ (7.849 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water at 20 °C (68 °F):	1.6 g/l
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **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

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

121-69-7 N,N-dimethylaniline

Oral	LD50	1410 mg/kg (rat)
------	------	------------------

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 6)

- **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 the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

80-62-6	methyl methacrylate	3
121-69-7	N,N-dimethylaniline	3

- **NTP (National Toxicology Program)**

None of the 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

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

USA

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 7)

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA 	UN1228
<ul style="list-style-type: none"> · UN proper shipping name · DOT, IMDG, IATA · ADR 	MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, N,N-DIMETHYLANILINE) 1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, N,N-DIMETHYLANILINE)
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	<div style="display: flex; align-items: center; gap: 10px;"> </div>
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3+6.1
<ul style="list-style-type: none"> · ADR, IMDG, IATA 	<div style="display: flex; align-items: center; gap: 10px;"> </div>
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids 3+6.1
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	Warning: Flammable liquids 336 F-E,S-D
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN1228, MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, N,N-DIMETHYLANILINE), 3 (6.1), II

15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

(Contd. on page 9)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 8)

· SARA Section 313 (specific toxic chemical listings)

All ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Cancerogenity categories
· EPA (Environmental Protection Agency)

80-62-6 methyl methacrylate

NL

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· GHS label elements The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms GHS02, GHS07, GHS08

· Signal word Danger

· Hazard-determining components of labelling:

methyl methacrylate

N,N-dimethylaniline

· Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Specific treatment (see on this label).

Store locked up.

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

· National regulations
· Technical instructions (air):

Class	Share in %
I	3.0
NK	97.0

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

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.

· 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

DOT: US Department of Transportation

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/01/2013

Reviewed on 05/01/2013

Trade name: Rawn Plas-T-Pair Liquid

(Contd. of page 9)

IATA: International Air Transport Association
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LD50: Lethal dose, 50 percent

· *** Data compared to the previous version altered.**

USA