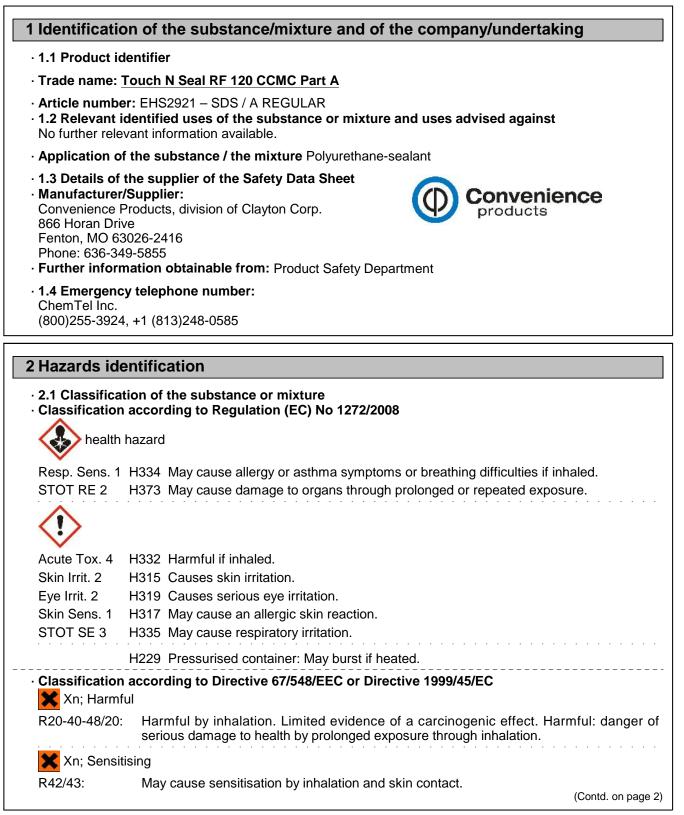
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 Ki; Irritant R36/37/38: Irritating to eyes, respiratory system and skin. Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Warning! Pressurized container. Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms
 R36/37/38: Irritating to eyes, respiratory system and skin. 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. Warning! Pressurized container. Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms Marcing to GHS08
 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. Warning! Pressurized container. Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms Qi Qi
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 GHS08
 supplemented by information from technical literature and by information provided by the company. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 GHS08
 Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 GHS08
· Signal word Danger
Hazard-determining components of labelling: diphenylmethanediisocyanate,isomeres and homologues 4,4'-methylenediphenyl diisocyanate
 Hazard statements H229 Pressurised container: May burst if heated. H332 Harmful if inhaled.
H315 Causes skin irritation. H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
 Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
 P103 Read label before use. P285 In case of inadequate ventilation wear respiratory protection. P280 Wear protective gloves / eye protection.
P260 Do not breathe mist/vapours/spray. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P403+P233 Store in a well-ventilated place. Keep container tightly closed. (Contd. on page 3)

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Trade name: Touch N Seal RF 120 CCMC Part A (Contd. of page 2) P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: Contains isocyanates. May produce an allergic reaction. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 1,8 % by mass of the contents are flammable · Hazard description: · WHMIS-symbols: A - Compressed gas D2A - Very toxic material causing other toxic effects · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 1· HMIS-ratings (scale 0 - 4) *2 Health = *2 HEALTH FIRE • Fire = 0 REACTIVITY 1 Reactivity = 1 * - Indicates a long term health hazard from repeated or prolonged exposures. · HMIS Long Term Health Hazard Substances 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 101-68-8 4,4'-methylenediphenyl diisocyanate · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

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	(Cont	d. of page 3)
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	25-50%
	Sens. 1, H317; STOT SE 3, H335	
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate Xn R20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	25-50%
CAS: 811-97-2 EINECS: 212-377-0	Norflurane	10-25%
	halogenated hydrocarbon Xn R22 Acute Tox. 4, H302	< 10%
· Additional information: For	the wording of the listed risk phrases refer to section 16.	•

4 First aid measures

· 4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

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. Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye. Rinse opened eye for several minutes under running water.

Call a doctor immediately.

Do not remove contact lenses if worn.

· After swallowing:

Unlikely route of exposure.

Do not induce vomiting; call for medical help immediately.

• **4.2 Most important symptoms and effects, both acute and delayed** Asthma attacks Headache Allergic reactions Coughing

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Breathing difficulty
Dizziness
Hazards
Danger of impaired breathing.
Danger of pulmonary oedema.
Danger of convulsion.
Danger of disturbed cardiac rhythm.
Condition may deteriorate with alcohol consumption.
4.3 Indication of any immediate medical attention and special treatment needed
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary oedema.
Monitor circulation, possible shock treatment.
Treat skin and mucous membrane with antihistamine and corticoid preparations.

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: None.
- 5.2 Special hazards arising from the substance or mixture Danger of receptacles bursting because of high vapour pressure when heated. In case of fire, the following can be released: Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Carbon monoxide (CO) Under certain fire conditions, traces of other toxic gases cannot be excluded.
 5.3 Advice for firefighters
 Protective equipment:
- Wear self-contained respiratory protective device.
 Wear fully protective suit.
 Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
Remove persons from danger area.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Protect from heat.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Clean the affected area carefully; suitable cleaners are:
Warm water and cleaning agent

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Dispose contaminated material as waste according to item 13.

· 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.

7 Handling and storage

• 7.1 Precautions for safe handling

Use only in well ventilated areas. Take note of emission threshold.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities
 Storage:
 Requirements to be met by storerooms and receptacles:

 Observe official regulations on storing packagings with pressurized containers.
 Store in a cool location.
 Provide ventilation for receptacles.

 Information about storage in one common storage facility:

 Store away from foodstuffs.
 Do not store together with acids.
 Store away from oxidizing agents.

 Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

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

8 Exposure controls/personal protection

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

· 8.1 Control parameters

*10-min

· Ingredients with limit values that require monitoring at the workplace:

101-68-8 4,4'-methylenediphenyl diisocyanatePEL (USA)Short-term value: C 0,2 mg/m³, C 0,02 ppmREL (USA)Short-term value: C 0,2* mg/m³, C 0,02* ppmLong-term value: 0,05 mg/m³, 0,005 ppm

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	(Contd. of page 6)		
TLV (USA)	0,051 mg/m ³ , 0,005 ppm		
EL (Canada)			
	Long-term value: 0,005 ppm		
	Skin; S		
EV (Canada)			
811-97-2 Nor			
WEEL (USA)			
	ogenated hydrocarbon		
PEL (USA)	790 mg/m ³ , 200 ppm		
REL (USA)	790 mg/m ³ , 200 ppm		
TLV (USA)	793 mg/m ³ , 200 ppm		
EL (Canada)			
EV (Canada)	Short-term value: 990 mg/m ³ , 250 ppm Long-term value: 790 mg/m ³ , 200 ppm		
	rther relevant information available.		
	rther relevant information available.		
· Additional in	formation: The lists valid during the making were used as basis.		
· 8.2 Exposure			
	tective equipment:		
	ective and hygienic measures: om foodstuffs, beverages and feed.		
	emove all soiled and contaminated clothing.		
	Wash hands before breaks and at the end of work.		
	with the eyes and skin.		
Respiratory			
Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present.			
· Protection of			
Prote	ective gloves		
The glove ma	terial has to be impermeable and resistant to the product/ the substance/ the preparation.		
	ing tests no recommendation to the glove material can be given for the product/ the		
	he chemical mixture.		
	the glove material on consideration of the penetration times, rates of diffusion and the		
degradation.			
 Material of gl Nitrile rubber, 			
PVC gloves			
	rubber (Viton)		
	of the suitable gloves does not only depend on the material, but also on further marks of		
	varies from manufacturer to manufacturer. As the product is a preparation of several		
	he resistance of the glove material can not be calculated in advance and has therefore to be to the application.		
спескей рпог	(Contd. on page 8)		

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(Contd. of page 7) • 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.

- \cdot Not suitable are gloves made of the following materials: Natural rubber, NR
- · Eye protection:

Contact lenses should not be worn.



Safety glasses

Goggles recommended during refilling

- · Body protection: Impervious protective clothing
- Limitation and supervision of exposure into the environment No further relevant information available.

• **Risk management measures** See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties

 9.1 Information on basic physical ar General Information Appearance: Form: Colour: Odour: Odour threshold: 	nd chemical properties Aerosolized liquid with compressed gas in cylind Cream coloured Characteristic Not determined.	ders
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not Determined. Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto/Self-ignition temperature:	400 °C (752 °F)	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	0,4 Vol % Not determined.	
· Vapour pressure at 20 °C:	5716 hPa	(Contd. on page 9)

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		(Contd. of page 8)
· Density at 20 °C:	1,03 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
 Solubility in / Miscibility with 		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (US EPA Method 24)	32,8 g/l	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
 Reacts with alcohols, amines, aqueous acids and alkalis.
 Contact with acids releases toxic gases.
 Danger of receptacles bursting because of high vapour pressure when heated.
 Reacts with oxidizing agents.
 Exothermic polymerization.

 10.4 Conditions to avoid Store away from oxidizing agents.
 10.5 Incompatible materials: Contact with acids liberates toxic gas.
 10.6 Hazardous decomposition products:
 Carbon monoxide and carbon dioxide
- Isocyanate
- Nitrogen oxides

11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:

- 101-68-8 4,4'-methylenediphenyl diisocyanate
- Oral LD50 2200 mg/kg (mouse)

Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

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- on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

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
- · Sensitisation: Sensitization possible by inhalation and/or dermal contact.
- · Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- · 12.3 Bioaccumulative potential Does not accumulate in organisms.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

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.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

· Recommendation

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Contact waste processors for recycling information.

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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Disposal must be made according to official regulations.

14 Transport information · 14.1 UN-Number · DOT, ADR, IMDG, IATA UN3500 · 14.2 UN proper shipping name · DOT, IMDG, IATA Chemical under pressure, n.o.s. (Fluorinated Hydrocarbon, Nitrogen) · ADR 3500 CHEMICAL UNDER PRESSURE, N.O.S. (Fluorinated Hydrocarbon, Nitrogen) · 14.3 Transport hazard class(es) · DOT · Class 2.2 · Label 2.2 · ADR · Class 2 8A Gases. · Label 2.2 · IMDG, IATA · Class 2.2 · Label 2.2 · 14.4 Packing group · DOT. ADR. IMDG. IATA Not Regulated · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Gases. · Danger code (Kemler): 20 · EMS Number: F-D,S-U · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 120 ml (Contd. on page 12)

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Trade name: Touch N Seal RF 120 CCMC Part A			
	(Contd. of page 11	1)	
 Transport category 	3		
 Tunnel restriction code 	C/E		
 UN "Model Regulation": 	UN3500, CHEMICAL UNDER PRESSURE, N.O.S	5.	

(Fluorinated Hydrocarbon, Nitrogen), 2.2

15 Regulatory information · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) · SARA · Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 101-68-8 4,4'-methylenediphenyl diisocyanate · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 (California): · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic Categories · EPA (Environmental Protection Agency) 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues CBD CBD 101-68-8 4,4'-methylenediphenyl diisocyanate · IARC (International Agency for Research on Cancer) 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 3 101-68-8 4,4'-methylenediphenyl diisocyanate 3 • TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. (Contd. on page 13)

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· Canada

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· Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

101-68-8 4,4'-methylenediphenyl diisocyanate

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 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.

· Relevant phrases

- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

- R20 Harmful by inhalation.
- R22 Harmful if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

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
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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) WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent

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(Contd. of page 13) LD50: Lethal dose, 50 percent : Flammable aerosols, Hazard Category 3 Press. Gas: Gases under pressure: Compressed gas Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 **Sources** SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtellinc.com