

Force 100

SDS Number: A95H

Revision Date: 8/6/2018

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## PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

Wechem, Inc  
5734 Susitna Dr  
Harahan, LA 70123

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**Phone:** 504-733-1152  
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**Web:** www.wechem.com

**Product Identifier:** Force 100  
**SDS Number:** A95H  
**Product Code:** A95  
**Revision Date:** 8/6/2018  
**Product Use:** Degreasing Solvent

Emergency Telephone Number:  
INFOTRAC  
1-800-535-5053

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## HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Gases Under Pressure, Compressed Gas  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Germ cell mutagenicity, 2  
Health, Carcinogenicity, 1  
Environmental, Hazards to the aquatic environment - Acute, 3  
Environmental, Hazards to the aquatic environment - Chronic, 3

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



#### GHS Hazard Statements:

H280 - Contains gas under pressure; may explode if heated  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

#### GHS Precautionary Statements:

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Avoid breathing mist or vapor.  
P264 - Wash thoroughly after handling.

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- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302 - IF ON SKIN: Wash with plenty of water.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P308+313 - IF exposed or concerned: Get medical advice/attention.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 - Specific treatment (see this label).
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P337 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P410+403 - Protect from sunlight. Store in a well ventilated place.
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not Otherwise Classified (HNOC) or not Covered by GHS**

- Route of Entry:** Ingestion, Inhalation, skin absorption, eye
- Target Organs:** May cause drowsiness and dizziness.
- Inhalation:** Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
- Skin Contact:** Causes skin irritation.
- Eye Contact:** Causes serious eye irritation.
- Ingestion:** Expected to be a low ingestion hazard.

<b>3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Ingredients		
CAS#	%	Chemical Name
79-01-6	90-100%	Trichloroethylene
124-38-9	1-2.5%	Carbon dioxide
106-88-7	0.1-1%	1,2-Butylene oxide

<b>4</b>	<b>FIRST AID MEASURES</b>
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- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin Contact:** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Wash clothing separately before reuse.
- Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.
- Ingestion:** No likely, due to the form of the product. In the unlikely event of swallowing, contact a physician or poison control center. Rinse mouth.

Most important symptoms/effects: May cause drowsiness and dizziness. Headache. Nausea, vomiting. Serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediated medical attention and special treatment: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

If exposed or concerned: get medical attention/advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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**FIRE FIGHTING MEASURES**

**Flammability:** Not available  
**Flash Point:** None estimated  
**Autoignition Temp:** 788 F (420 C) Estimated

Extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

During fire, gases hazardous to health may be formed.

Special Fire fighting procedures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special Fire fighting procedures:

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Cool containers exposed to flames with water until well after the fire is out.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

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**ACCIDENTAL RELEASE MEASURES**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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**HANDLING AND STORAGE****Handling Precautions:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Do not prolong exposure. Avoid breathing gas. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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Level 1 Aerosol.

**Storage Requirements:**

Store locked up. Contents under pressure. Do not expose to heat or store at temperature above 120 F/49 C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials ( see Section 10 of the SDS).

Level 1 Aerosol (NFPA 30B)

<b>8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Engineering Controls:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Personal Protective Equipment:**

HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator  
 Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.  
 Protective gloves: Appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.  
 Eye protection: Safety glasses with side shields or goggles.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Wear appropriate thermal protective clothing, when necessary.

Observe any medical surveillance requirements. When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Trichloroethylene cas#:(79-01-6) [90-100%]  
 Components with workplace control parameters

TWA	50 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
	270 mg/m3	1910.1000
Skin notation		

STEL	200 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
	1,080 mg/m3	1910.1000
Skin notation		

TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967		

CEIL	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967		

Peak	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967		

TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment cognitive decrement Renal toxicity Suspected human carcinogen		

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STEL 25 ppm USA. ACGIH Threshold Limit Values (TLV)  
 Central Nervous System impairment cognitive decrement Renal toxicity Suspected human carcinogen  
 Potential Occupational Carcinogen See Appendix C See Appendix A

Carbon dioxide cas#:(124-38-9) [1-2.5%]  
 Components with workplace control parameters

TWA 5,000 ppm USA. ACGIH Threshold Limit Values (TLV)  
 Asphyxia

STEL 30,000 ppm USA. ACGIH Threshold Limit Values (TLV)  
 Asphyxia

TWA 10,000 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
 18,000 mg/m3 1910.1000  
 Exposures under 10,000 ppm to be cited as de minimus.

STEL 30,000 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
 54,000 mg/m3 1910.1000

TWA 5,000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1  
 9,000 mg/m3 Limits for Air Contaminants  
 The value in mg/m3 is approximate.

TWA 5,000 ppm USA. NIOSH Recommended Exposure Limits  
 9,000 mg/m3  
 Normal constituent of air (about 300 ppm).

ST 30,000 ppm USA. NIOSH Recommended Exposure Limits  
 54,000 mg/m3  
 Normal constituent of air (about 300 ppm).

1,2-Butylene oxide cas#:(106-88-7) [0.1-1%]  
 Components with workplace control parameters

TWA 2 ppm USA. Workplace Environmental Exposure Levels  
 (WEEL)

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Aerosol. Compressed gas.	<b>Odor:</b>	Not available
<b>Physical State:</b>	Liquid.	<b>Solubility:</b>	Not available
<b>Spec Grav./Density:</b>	1.516 estimated	<b>Heat Value:</b>	NA
<b>Boiling Point:</b>	188.96 F (87.2 C) estimated	<b>Flash Point:</b>	None estimated
<b>Flammability:</b>	Not available	<b>Octanol:</b>	NA
<b>Vapor Pressure:</b>	100-120 psig @ 70F estimated	<b>Vapor Density:</b>	Not available
<b>pH:</b>	Not applicable	<b>VOC:</b>	96.45 % estimated
		<b>Auto-Ignition Temp:</b>	788 F (420 C) Estimated

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UFL/LFL: 52% / 7.8%

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Reactivity:** Stable and non-reactive under normal conditions of use, storage and transport.

**Chemical Stability:** Material is stable under normal conditions.

**Conditions to Avoid:** Heat. Contact with incompatible materials.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition:** No hazardous decomposition products are known.

**Hazardous Polymerization:** Does not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

**Skin Contact** Causes skin irritation.

**Eye Contact** Causes serious eye irritation.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Acute toxicity: Narcotic effects.

18 OZ FORCE 100 (CAS Mixture)

Acute

Dermal LD50 19701 mg/kg (Rat)

Inhalation LC50 1081 mg/l/ 4 hrs. (Rat)

Data summary for the components are as follows:

1,2,-Butylene Oxide (CAS 106-88-7)

Acute

Dermal LD50 1500-2950 mg/kg, 24 hrs. (Rabbit)

LD50 1.77 ml/kg, 24 hrs (Rabbit)

Inhalation

vapor LC50 >6.3 mg/l (Rat)

Oral LD50 1-1.58 mg/kg (Rat)

LD50 1100 micro liter/kg

LD50 1.3 ml/kg (Rabbit)

Trichloroethylene (CAS 79-01-6 )

Acute

Dermal LD50 19031 mg/kg (Rat)

Inhalation LC50 8450ppm, 4hrs (Dog;Mouse;Rabbit;Rat)

LC50 12500 ppm, 4 hrs. (Rat)

LC50 1044 mg/l/4hrs (Rat)

Oral LD50 2900 mg/kg (Dog;Mouse;Rat)

Causes skin irritation.

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Causes serious eye irritation.  
 Not a respiratory sensitizer.  
 This product is not expected to cause skin sensitization.  
 Suspected of causing genetic defects.  
 May cause cancer.  
 Suspected of causing genetic defects.  
 May cause drowsiness and dizziness.  
 Not an aspiration hazard.  
 Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

IARC Monographs. Overall Evaluation of Carcinogenicity  
 1,2-Butylene Oxide (CAS 106-88-7) 2B Possibly carcinogenic to humans.  
 Trichloroethylene (CAS 79-01-6) If <1L: Consumer Commodity Carcinogenic to Humans.  
 OSHA Specifically Regulated Substances (29CFR1910.1001-1050)  
 Not regulated.  
 US. National Toxicology Program (NTP) Report on Carcinogens  
 Trichloroethylene (CAS 79-01-6) Reasonably anticipated to be a Human Carcinogen.

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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Ecotoxicity: Harmful to aquatic life with long lasting effects.

18 OZ FORCE 100 (CAS Mixture)

Aquatic  
 Crustacea EC50 2.2775 mg/L, 48 hrs (Daphnia)  
 Fish LC50 42.333 mg/L 96 hrs. (Fish)

Data summary for the components are as follows:

1,2-Butylene Oxide (CAS 106-88-7)

Aquatic  
 Algae IC50 500 mg/L, 72hrs (Algae)  
 Crustacea EC50 69.8 mg/L, 48 hrs (Daphnia)  
 Fish LC50 160, 96 hrs (Fish)

Trichloroethylene (CAS 79-01-6 )

Aquatic  
 Crustacea EC50 2.2 mg/L, 48 hrs (Daphnia)  
 Fish LC50 40.8933 mg/L 96 hrs. (Fish)  
 LC50 3.1 mg/l 96 hrs. Flagfish (Jordanella floridae)

Partition coefficient n-octanol / water (log Kow)  
 Trichloroethylene 2.61

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No data available on persistence and degradability of this product.  
No data available on the bioaccumulative potential of this product.

No data on the mobility in soil.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional national/international regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner ( see Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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**DOT**

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	6.1 (PGIII)
Label(s)	2.2,6.1
Packing group	Not applicable
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

**IATA**

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, containing substances in Division 6.1, PG III
Transport hazard class(es)	
Class	Forbidden
Subsidiary risk	Forbidden



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Packing group Not applicable  
 Environmental hazards No  
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

UN number UN1950  
 UN proper shipping name AEROSOLS  
 Transport hazard class(es)  
     Class 2.2  
     Subsidiary risk 6.1 (PGIII)  
     Label(s) 2.2+6.1  
 Packing group Not applicable  
 Environmental hazards  
     Marine pollutant No  
 EmS Not available.  
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.  
 Packaging exceptions NOT LTD QTY  
 Transport in bulk according to Not available.  
 AnnexII of MARPOL 73/78 and the IBC Code

15	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

RQ(100LBS), Trichloroethylene (79-01-6) [90-100%] CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, HWCRA, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, REACH, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Carbon dioxide (124-38-9) [1-2.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(100LBS), 1,2-Butylene oxide (106-88-7) [0.1-1%] CERCLA, HAP, MASS, NJHS, PA, SARA313, TSCA, TXAIR

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Trichloroethylene (79-01-6)- Carcinogenic substance  
 Trichloroethylene (79-01-6)- Developmental Toxin  
 Trichloroethylene (79-01-6)- Male reproductive toxin

**Regulatory CODE Descriptions**

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 RQ = Reportable Quantity  
 CERCLA = Superfund clean up substance  
 CSWHS = Clean water Act Hazardous substances  
 EPCRAWPC = EPCRA Water Priority Chemicals  
 GADSL = Global Automotive Declarable Substance List (GADSL)  
 HAP = Hazardous Air Pollutants  
 HWCRA = RCRA Hazardous Wastes  
 MASS = MA Massachusetts Hazardous Substances List  
 NJHS = NJ Right-to-Know Hazardous Substances  
 OSHAWAC = OSHA workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 PRIPOL = Clean water Act Priority Pollutants  
 PROP65 = CA Prop 65  
 REACH = REACH List of Substances of Very High Concern (RSL)  
 SARA313 = SARA 313 Title III Toxic Chemicals

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TOXICPOL = Clean Water Act Toxic Pollutants  
TOXICRCRA = RCRA Toxic Hazardous wastes (U-List)  
TSCA = Toxic Substances Control Act  
TXAIR = TX Air Contaminants with Health Effects Screening Level  
TXHWL = TX Hazardous waste List

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## OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

N/A = Not available    N/D = Not determined