Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 12/04/2018



May cause drowsiness or dizziness.         Precautionary statements (GHS-US)         Wash hands thoroughly after handling. Obtain special instructions before use. Do not h until all safety precautions have been read and understood. Wear protective gloves/proclothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use onhoutdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/atter skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air ar comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accomfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accomfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accommodation available         2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	ate of issue: 12/04/2018	LIQUID ARMOR
1.1       Product Identifier         Product name       DuraMAX Chorinated Brake Cleaner         Product code       DM473         1.2.       Relevant Identified uses of the substance or mixture and uses advised against         Use of the substance/mixture       : Brake Cleaner:         1.3.       Details of the subplier of the safety data sheet         Company Identification:       ReleDyne, LC         ReleDyne, LC       ReleDyne, LC         ReleDyne, LC </th <th>SECTION 1: Identification of the</th> <th>substance/mixture and of the company/undertaking</th>	SECTION 1: Identification of the	substance/mixture and of the company/undertaking
Product name DWTAMA Chlorihaled Brake Cleaner DM473 DM473 DM473 DM473 DM473 DM474 DM473 DM474 DM		
Transportation       DM473         1.2. Relevant identified uses of the substance or mixture and uses advised against         Use of the substance/mixture       : Brake Cleaner.         1.3. Details of the supplier of the safety data sheet         Company Identification: RelaDyne, LLC         8280 Monigomery Road, Suite 101 Cincinnial, 0H 45236         Continue and M 45236         8280 Monigomery Road, Suite 101 Cincinnial, 0H 45236         Cincinnal, OH 45236         8280 Monigomery Road, Suite 101 Cincinnial, 0H 45236         Cincinnal, OH 45236         8280 Monigomery Road, Suite 101 Cincinnial, OH 45236         Cincinnal, OH 45236         8280 Monigomery Road, Suite 101 Cincinnial, OH 45236         Gases Under Pressure - Compressed Gas Sin infition 2         Carinogenicity 18         Specific target organ toxicity - Single exposure 3         2.1       Labe Idements         GHS-US labelling         Hazard pictograms (CHS-US)       : Danger         : Danger       : Contains gas under pressure, may explode if heated. Causes skin irritation. May cause May cause drowsiness or dizzness.         Signal word (CHS-US)       : Danger         Hazard statements (GHS-US)       : Danger         : Contains gas under pressure, may explode if heated. Causes skin irritation. May cause May cause drowsines or dizzness.		DuraMAX Chlorinated Brake Cleaner
12. Relevant identified uses of the substance or mixture and uses advised against         Use of the substance/mixture       : Brake Cleaner.         13. Details of the supplier of the safety data sheet       Company Identification:         RelaDyne, LLC       Sale 30-3156         Waw, reladyne.com       Transportation Emergency Response:         INFOTRAC 800-355-5633       Product Information:         email: sales@reladyne.com       Statistication of the substance or mixture         GHS-US classification       Gases Under Pressure - Compressed Gas Shin Irritation 2         Carcinogenicity 18       Specific target organ toxicity - Single exposure 3         2.2. Label elements       GHS-US classification         GHS-US labelling       Engre         Hazard pictograms (GHS-US)       : Danger         Signal word (GHS-US)       : Danger         Read statements (GHS-US)       : Contains gas under pressure r.may explode if heated. Causes skin initiation. May cause May cause drowsiness or dizzness.         Precautionary statements (GHS-US)       : Contains gas under pressure: may explode if heated. Causes skin initiation. May cause firm torough jafter heating agamistivaportexper use. Do not h unti all safety precautions have been read and understood. Wear protective gloves/protection. Avaich breating agamistivaportexper use. Do not h until all safety precautions have been read and understood. Wear protective gloves/protection. Avaich breating agamistivaporescipene. Use on th until all safety precautions have		
Use of the substance/mixture : Brake Cleaner: <b>1.3. Details of the supplier of the safety data sheet</b> <b>Company Identification:</b> ReliaDyne, LLC 8280 Montgomery Road, Sulie 101 Cincinnali, OH 45236 889-830-3156 www.reladyne.com <b>Transportation Emergency Response:</b> INFOTRAC 800-535-5053 <b>Product Information:</b> email: sales@reladyne.com <b>SECTION 2: Hzzards identification</b> <b>2.1. Classification</b> <b>Gases Under Pressure - Compressed Gas</b> Skin Irritation 2 Carcinogenicity 1B Specific target organ toxicity - Single exposure 3 <b>2.2. Label elements</b> <b>GHS-US labelling</b> Hazard pictograms (GHS-US) Hazard pictograms (GHS-US) Hazard statements (GHS-US) Freeautionary statements (GHS-US) Freeautionary statements (GHS-US) Freeautionary statements (GHS-US) Freeautionary statements (GHS-US) <b>2.3. Other hazards</b> <b>2.4. Other hazards</b> <b>2.4. Other hazards</b> <b>2.5. Other hazards</b> <b>2.6. Other hazards</b> <b>2.7. Label elements</b> <b>2.8. Other hazards</b> <b>2.9. Label elements</b> <b>2.1. Contains gas under pressure; may explode if heated.</b> Causes skin irritation. May cause May cause drowsiness or dizziness. <b>2.9. Other hazards</b> <b>2.9. Other hazards</b> <b>3.0 Other hazards</b> <b>3.0 Other hazards</b> <b>3.1. Substance</b> Nut applicable		2
3.       Details of the supplier of the safety data sheet         Company Identification: RelaDyne, LLC       8280 Montgomery Road, Suite 101 Cincinnail, OH 45236         8283-830-3156       Wawn.reladyne.com         Transportation Emergency Response: INFOTRXC 800-535-6035       Product Information: email: sales@reladyne.com         SECTION 24 Hazards identification       Email: sales@reladyne.com         SECTION 24 Hazards identification       Email: sales@reladyne.com         SECTION 25 Chassification of the substance or mixture       GHS-US classification         Gases Under Pressure - Compressed Gas Stim initiation 2       Cases Under Pressure - Compressed Gas Stim initiation 2         Cerif-Day Cliff       Specific target organ toxicity - Single exposure 3       Email: Sales@reladyne.com         Signal word (GHS-US)       :       Contains gas under pressure; may explode if heated. Causes skin irritation. May cause May cause drowsiness or dizzliness.         Precautionary statements (GHS-US)       :       Wash hands thoroughy after handling. Otain special instructions before use. Do not h unit all safety precautions have been need and understood. Wear protective glovespiro clothing/eye protection/face or preceder.or Avoid breating gas/mickypons/spray. Use of outdoors or in a weil-ventilated place. Protect from sunlight. Despose of contents and containser in acc with all local, regional, national and international regulations.         2.3.       Other hazards         No additional Information oravislable         2		
Company Identification:         RelaDyne, LLC         8280 Montgomery Road, Suite 101         Chroinnait, UN 45238         888-830-3156         Www.reladyne.com         Transportation Emergency Response:         INFOTRAC 800-533-6053         Product Information:         email: sales@reladyne.com         SECTION 2: Hazards Identification         Classification of the substance or mixture         CHS-US classification         Gases Under Pressure - Compressed Gas         Sun initiation 2         Carcinogenicity 1B         Specific target organ toxicity - Single exposure 3         2.2.       Label elements         CHS-US labelling         Hazard statements (GHS-US)       : Danger         : Contains gas under pressure; may explode if heated. Causes skin initiation. May cause drowsiness or dizziness.         Wash hands thoroughy latter handling. Otain special instructions before use. Do nd h until all safety protection/face protection. Avoid bereating gas/mis/typors/spray. Use on outdoors or in a well-wentilated area: Tex of containing and understoparcyspray. Use on outdoors or in a well-wentilated area: Tex of containing advashit before reus initiation cours: Get medical advice/attern read or distructions before use. Do nd h until all safety protection/face protection. Avoid bereating gas/mis/typors/spray. Use on outdoors or in a well-wentilated area: Tex of containinated clotining advashit before reus initiation accurs: Get medica	Use of the substance/mixture	: Brake Cleaner.
RelaCyme       LLC         8280 Monigomery Road, Suite 101       Cincinnat, OH 45236         8280-303-156       Www.reladyne.com         Transportation Emergency Response:       INFOTRAC 800-535-5053         Product Information:       email: sales@reladyne.com         SEECTION 2: Hazards identification       GHS-US classification of the substance or mixture         GHS-US classification       Gases Under Pressure - Compressed Gas         San initiation 2       Carcinogenicity 18         Specific target organ toxicity - Single exposure 3       Z.2.         2.2.       Label elements         GHS-US labelling       Engre         Hazard pictograms (GHS-US)       : Danger         Signal word (GHS-US)       : Contains gas under pressure; may explode if heated. Causes skin initiation. May cause fixed rowsines or dizziness.         Precautionary statements (GHS-US)       : Wash hands throoughly after handling. Obtain special instructions before use. Do not have on their edus of understool. Wear protective gives/pro outdoors or in a well-weilled area. ("Averopseed or concerned." Generacical advice/after sixie. Wash with pierty of water. Take of constmisting gas/misi/vepors/gray. Use on outdoors or in a well-weilled area. Take of constmisted conting and wash it before reuse or in a well-weilled area. ("Composed advice/after sixie. Wash with all local, regional, national and international and international weal interdice first advice/after sixie. Wash with all local, regional, national and international and international and internationa	1.3. Details of the supplier of the saf	ety data sheet
<ul> <li>2.1. Classification of the substance or mixture</li> <li>GHS-US classification</li> <li>Gases Under Pressure - Compressed Gas</li> <li>Skin initiation 2</li> <li>Carcinogenicity 18</li> <li>Specific target organ toxicity - Single exposure 3</li> <li>2.2. Label elements</li> <li>GHS-US labelling</li> <li>Hazard pictograms (GHS-US)</li> <li>: Danger</li> <li>: Danger</li> <li>: Danger</li> <li>: Wash hands thoroughly after handling. Obtain special instructions before use. Do not have been read and understood. Weap protection/face protection/face protection/face protection / Avoid breathing gas/msit/vapors/spray. Use on hour output of the mixture consists of ingredient(s) of unknown acute toxicity.</li> <li>: Other hazards</li> <li>: Other hazards</li></ul>	RelaDyne, LLC 8280 Montgomery Road, Suite 101 Cincinnati, OH 45236 888-830-3156 www.reladyne.com Transportation Emergency Response: INFOTRAC 800-535-5053 Product Information:	
GHS-US classification         Gases Under Pressure - Compressed Gas Skin initiation 2 carcinogenicity 18 Specific target organ toxicity - Single exposure 3         2.2.       Label elements         GHS-US labelling         Hazard pictograms (GHS-US)       : : : : : : : : : : : : : : : : : : :	SECTION 2: Hazards identificatio	n
Gases Under Pressure - Compressed Gas         Skin irritation 2         Carcinogenicity 1B         Specific target organ toxicity - Single exposure 3         2.2.       Label elements         GHS-US labelling         Hazard pictograms (GHS-US)       :         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Vash hands thoroughly after handling. Obtain special instructions before use. Do not huntil all safety precautions have been read and understood. Wear protective gloves/procietothing/eye protection/face protection. Avoid breathing gas/msity/apors/spray. Use only outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/atter         Sta.       Other hazards         No additional information available       24.         24.       Unknown acute toxicity (GHS-US)         3 % of ther mixture consists of ingredient(s) of unknown acute toxicity.       SECTION 3: Composition/information on ingredients         31.       Substance       Nushands		
Gases Under Pressure - Compressed Gas         Skin irritation 2         Carcinogenicity 1B         Specific target organ toxicity - Single exposure 3         2.2.       Label elements         GHS-US labelling         Hazard pictograms (GHS-US)       :	GHS-US classification	
GHS-US labelling         Hazard pictograms (GHS-US)         :	Skin irritation 2 Carcinogenicity 1B Specific target organ toxicity - Single exposu	ire 3
Hazard pictograms (GHS-US)       :	2.2. Label elements	
Signal word (GHS-US)       : Danger         Hazard statements (GHS-US)       : Contains gas under pressure; may explode if heated. Causes skin irritation. May cause May cause drowsiness or dizziness.         Precautionary statements (GHS-US)       : Oontains gas under pressure; may explode if heated. Causes skin irritation. May cause May cause drowsiness or dizziness.         Precautionary statements (GHS-US)       : Wash hands thoroughly after handling. Obtain special instructions before use. Do not h until all safety precautions have been read and understood. Wear protective gloves/procolothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use onhout outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/atter skin: Wash with plenty of water. Take off contaminated clothing and wash it before reus irritation occurs: Get medical advice/attering and wash it before reus ormfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up or well-ventilated place. Protect from sunlight. Dispose of contents and container in according the additional information available         2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	GHS-US labelling	
Hazard statements (GHS-US)       : Contains gas under pressure; may explode if heated. Causes skin irritation. May cause May cause drowsiness or dizziness.         Precautionary statements (GHS-US)       : Wash hands thoroughly after handling. Obtain special instructions before use. Do not h until all safety precautions have been read and understood. Wear protective gloves/procolothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air ar comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of containts and container in account with all local, regional, national and international regulations.         2.3.       Other hazards         No additional information available       2.4.         2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	Hazard pictograms (GHS-US)	GHS04 GHS07 GHS08
May cause drowsiness or dizziness.         Precautionary statements (GHS-US)         Wash hands thoroughly after handling. Obtain special instructions before use. Do not h until all safety precautions have been read and understood. Wear protective gloves/proclothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use onloutdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/attert skin: Wash with plenty of water. Take off contaminated clothing and wash it before reus irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air ar comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accomfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accomfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accommodation available         2.3.       Other hazards         No additional information available         2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	Signal word (GHS-US)	: Danger
until all safety precautions have been read and understood. Wear protective gloves/pro clothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/atter skin: Wash with plenty of water. Take off contaminated clothing and wash it before reus irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air an comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up a well-ventilated place. Protect from sunlight. Dispose of contents and container in accor with all local, regional, national and international regulations. 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS-US) 3 % of the mixture consists of ingredient(s) of unknown acute toxicity. SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable	Hazard statements (GHS-US)	<ul> <li>Contains gas under pressure; may explode if heated. Causes skin irritation. May cause cancer May cause drowsiness or dizziness.</li> </ul>
No additional information available         2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	Precautionary statements (GHS-US)	: Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If exposed or concerned: Get medical advice/attention. If skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If ski irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store locked up. Store a well-ventilated place. Protect from sunlight. Dispose of contents and container in accordance with all local, regional, national and international regulations.
2.4.       Unknown acute toxicity (GHS-US)         3 % of the mixture consists of ingredient(s) of unknown acute toxicity.         SECTION 3: Composition/information on ingredients         3.1.       Substance         Not applicable	2.3. Other hazards	
3 % of the mixture consists of ingredient(s) of unknown acute toxicity.  SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable		
3 % of the mixture consists of ingredient(s) of unknown acute toxicity.  SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable	2.4. Unknown acute toxicity (GHS-U	S)
SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable		,
3.1. Substance Not applicable	0 ( )	
Not applicable	SECTION 3: Composition/informa	ation on ingredients
	3.1. Substance	
	Not applicable	
3.2. Mixture	3.2. Mixture	

Name	Product identifier	%	GHS-US classification
Tetrachloroethylene	(CAS No) 127-18-4	60 - 100	Skin Irrit. 2 Carc. 1B STOT SE 3
Carbon dioxide	(CAS No) 124-38-9	1 - 5	Compressed gas
The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.			



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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delaved
Symptoms/injuries after inhalation	: Vapors may cause narcosis with headache, difficulty breathing, lightheadedness, drowsiness, unconsciousness and possibly death. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
4.3. Indication of any immediate medica	Il attention and special treatment needed
	e of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Treat for surrounding material.
Unsuitable extinguishing media	: Not available.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.
Explosion hazard	: Contains gas under pressure; may explode if heated.
5.3. Advice for firefighters	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ed	uipment and emergency procedures
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
6.2. Methods and material for containm	ent and cleaning up
For containment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.
6.3. Reference to other sections	
See section 8 for further information on protective	e clothing and equipment and section 13 for advice on waste disposal.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Keep out of the reach of children. Store locked up. Protect from sunlight. Store in a well- ventilated place.
7.3. Specific end use(s)	
Net evellette	

Not available.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 8: Exposure c	ontrols/persona	al protection		
8.1. Control parameters				
Tetrachloroethylene (127-18	-4)			
USA ACGIH	ACGIH TWA (ppm	)	25 ppm	
USA ACGIH	ACGIH STEL (ppm	n)	100 ppm	
USA OSHA	OSHA PEL (TWA)	(ppm)	100 ppm	
USA OSHA	OSHA PEL (Ceilin	g) (ppm)	200 ppm	
Carbon dioxide (124-38-9)				
USA ACGIH	ACGIH TWA (ppm	)	5000 ppm	
USA ACGIH	ACGIH STEL (ppm	n)	30000 ppm	
USA OSHA	OSHA PEL (TWA)	) (mg/m³)	9000 mg/m³	
USA OSHA	OSHA PEL (TWA)	(ppm)	5000 ppm	
8.2. Exposure controls				
Appropriate engineering controls		Use ventilation adequate to keep export recommended exposure limits.	osures (airborne levels of dust, fume, vapor, etc.) below	
Personal protective equipment	:	Avoid all unnecessary exposure.		
Hand protection	:	: Wear chemically resistant protective gloves.		
Eye protection	: Safety glasses or goggles are recommended when using product.			
Skin and body protection : Wear suitable protective clothing.				
Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissi exposure limits may be exceeded. Respirator selection must be based on known or anticip exposure levels, the hazards of the product and the safe working limits of the selected resp			spirator selection must be based on known or anticipated	
Environmental exposure controls : Maintain levels below Community environmental protection thresholds.			ironmental protection thresholds.	
Other information	:	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully		

before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	I chemical properties
Physical state	: Gas/Pressurized Liquid.
Appearance	: Clear.
Colour	: Colourless.
Odour	: Chlorine.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: 1.60 - 1.65
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

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9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reaction known under conditions of	normal use.
10.2. Chemical stability	under pressure. Container may explode if heated. Do not puncture. Do not burn.
10.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions of	normal use.
10.4. Conditions to avoid	
Heat. Incompatible materials.	
10.5. Incompatible materials	
Amines. Bases. Strong oxidizing agents. Metals.	
<b>10.6.</b> Hazardous decomposition products	
May include, and are not limited to: oxides of carb	on, hydrogen chloride, other poisonous chlorine compounds.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
DM482	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Tetrachloroethylene (127-18-4)	
LD50 oral rat LD50 dermal rabbit	2629 mg/kg > 3228 mg/kg
LC50 inhalation rat (ppm)	4000 ppm/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation Respiratory or skin sensitisation	<ul> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: May cause cancer.
Tetrachloroethylene (127-18-4)	
IARC group	2A
National Toxicity Program (NTP) Status	1, 3
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Vapors may cause narcosis with headache, difficulty breathing, lightheadedness, drowsiness, unconsciousness and possibly death. May cause respiratory irriation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking o the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	
DM482	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
DM482	
Bioaccumulative potential	Not established.
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12.4.	Mobility in soil				
No add	No additional information available				
12.5.	Other adverse effects				
No add	No additional information available				
SECT	ION 13: Disposal considera	ns			
13.1.	Waste treatment methods				
Waste	disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.			

SECTION 14: Transport information			
In accordance with DOT			
14.1. UN number			
UN-No.	: UN1950		
14.2. UN proper shipping name			
Proper Shipping Name	: Aerosols		
Department of Transportation Hazard Classes	: 2.2 (6.1)		
Hazard labels			
14.3. Additional information			
Other information	: No supplementary information available.		
Special transport precautions	: Do not handle until all safety precautions have been read and understood.		
SECTION 15: Regulatory information			
15.1. US Federal regulations			
Tetrachloroethylene (127-18-4)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 313 - Emission Reporting	0.1 %		
Carbon dioxide (124-38-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
15.2. US State regulations			
DM482			
State or local regulations	This product can expose you to chemicals including Tetrachloroethylene, which is known to the State of California to cause cancer.		
SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:			

IARC	International Agency for Research on Cancer.
	<ul> <li>1 - Carcinogenic to humans;</li> <li>2A - Probably carcinogenic to humans;</li> <li>2B - Possibly carcinogenic to humans;</li> <li>3 - Not classifiable;</li> </ul>
	4 - Probably not carcinogenic to humans.
NTP	National Toxicology Program.
	<ol> <li>Evidence of Carcinogenicity;</li> <li>Known Human Carcinogens;</li> <li>Reasonably anticipated to be Human Carcinogen;</li> <li>Substances delisted from report on Carcinogens;</li> <li>Twelfth Report - Items under consideration.</li> </ol>

SECTION 16: Other information		
Indication of changes	:	None.
Date of issue	:	12/04/2018
Other information	:	None.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

NFPA health hazard	:	2
NFPA fire hazard	:	1
NFPA reactivity	:	0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

