# SAFETY DATA SHEET

### 1. Identification

Product number	111025
Product identifier	14 OZ MALCO BRAKE PARTS CLEANER LB 12PK
Company information	MALCO PRODUCTS 361 FAIRVIEW AVE BARBERTON, OH 44203 United States
Company phone	General Assistance 330-753-0361
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	01
Recommended use	CLEANER
Recommended restrictions	None known.
2 Hazard(c) identification	

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	40 - 60
Heptane, branched, cyclic and linear		426260-76-6	20 - 40
n-Heptane		142-82-5	10 - 20
Carbon Dioxide		124-38-9	2.5 - 10
Toluene		108-88-3	1 - 2.5

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

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	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. 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.
5. Fire-fighting measures	

### 5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.

### 6. Accidental release measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. 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.
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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Level 3 Aerosol.
Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	alue	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3		
		1000 ppm		
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3		
		5000 ppm		
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3		
		500 ppm		
US. OSHA Table Z-2 (29 CFR 1910)	.1000)			
Components	Туре	Value		
Toluene (CAS 108-88-3)	Ceiling	300 ppm		
	TWA	200 ppm		
US. ACGIH Threshold Limit Values	8			
Components	Туре	Value		
Acetone (CAS 67-64-1)	STEL	750 ppm		
	TWA	500 ppm		
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm		
	TWA	5000 ppm		
n-Heptane (CAS 142-82-5)	STEL	500 ppm		
	TWA	400 ppm		

Toluene (CAS 108-88-3)     TWA     20 ppm       US, NIOSH: Pocket Guide to Chemical Hazards     Type     Value       Acetone (CAS 67-64-1)     TWA     590 mg/m3       Carbon Dioxide (CAS     STEL     54000 mg/m3       124-38-9)     30000 ppm     TWA     9000 mg/m3       Carbon Lioxide (CAS 142-82-5)     Ceiling     1800 mg/m3     5000 ppm       n-Heptane (CAS 142-82-5)     Ceiling     1800 mg/m3     440 ppm       Toluene (CAS 108-88-3)     STEL     560 mg/m3     150 ppm       Toluene (CAS 108-88-3)     STEL     560 mg/m3     150 ppm       Biological limit values     ACGIH Biological Exposure Indices     Components     Value     Determinant     Specime     Sampling Time       Accitone (CAS 108-88-3)     0.3 mg/g     Orscol, with Creatinine in     •     •     •       Accitone (CAS 108-88-3)     0.3 mg/g     Orscol, with Creatinine in     •     •     •       Out on (CAS 108-88-3)     0.3 mg/g     Orscol, with Creatinine in     •     •     •       Out one (CAS 108-88-3)     0.3 mg/g     Orscol, with Creatinine in     •     •       Out one (CAS 108-88-3)     0.3 mg/g     Creatione in etable     •     •       Out one (CAS 108-88-3)     0.3 mg/g     Creatione in etable     •     • <th colspan="2">Components Type</th> <th>14</th> <th>lue</th> <th></th>	Components Type		14	lue		
Components         Type         Value           Acetone (CAS 67-64-1)         TWA         500 mg/m3           Carbon Dioxide (CAS         STEL         54000 mg/m3           124-38-9)         30000 ppm           TWA         9000 mg/m3           n-Heptane (CAS 142-82-5)         Ceiling         1800 mg/m3           Components         440 ppm           TWA         350 mg/m3           Stological Kases         5500 mg/m3           Toluene (CAS 108-88-3)         STEL         560 mg/m3           Stological limit values         STEL         560 mg/m3           ACGIH Biological Exposure Indices         Components         Value           Components         Value         Determinant         Specimen           Acetone (CAS 108-88-3)         0.3 mg/l         Creasol, with         Creatinine in           O.02 mg/l         Toluene         Urine         -           O.03 mg/l         Toluene         Urine         -           VS - California OELs: Skin designation         -         -           Toluene (CAS 108-88-3)         Can be absorbed through the skin.         -           US - California OELs: Skin designation applies:         Can be absorbed through the skin.         -           VS - Califo	Toluene (CAS 108-88-3) TWA		20	ppm		
Acetone (CAS 67-64-1)       TWA       500 mg/m3         Carbon Dioxide (CAS       STEL       54000 mg/m3         124-38-9)       30000 ppm         TWA       9000 mg/m3         124-38-9)       30000 ppm         n-Heptane (CAS 142-82-5)       Ceiling       1800 mg/m3         n-Heptane (CAS 142-82-5)       Ceiling       1800 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         ACGIH Biological Exposure Indices       500 ppm       100 ppm         Zoorne (CAS 108-88-3)       STEL       560 mg/m3         Biological limit values       Accore       Urine       •         Accore (CAS 108-88-3)       0.3 mg/l       Octone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/l       Octone       Urine       •         Accore (CAS 108-88-3)       0.3 mg/l       Octone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/l       Toluene       Urine       •         0.02 mg/l       Toluene       Urine       •       •         7 - For sampling details, please see the source document.       Exposure guidelines       US < California OELs: Skin designation applies	US. NIOSH: Pocket Guide	e to Chemical Hazar	ds			
Carbon Dioxide (CAS)       STEL       54000 mg/m3         124-38-9)       TWA       30000 ppm         n-Heptane (CAS 142-82-5)       Ceiling       1800 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         ACGIH Biological Exposure Indices       500 ppm       150 ppm         Components       Value       Determinant       Specimen       Sampling Time         ACGIH Biological Exposure Indices       Corresol, with Crreatinne in *       *       *         Coston (CAS 108-88-3)       0.3 mg/g       O-Cresol, with Crreatinne in *       *         Toluene (CAS 108-88-3)       0.3 mg/g       O-Cresol, with Crreatinne in *       *         O.02 mg/l       Toluene       Blood       *         * - For sampling details, please see the source document.       Exposure guidelines       Us - California OELs: Skin designation Toluene       Can be absorbed through the skin.         US - California OELs: Skin designation applies       Cond be matched to conditions. If applicable, use process enclosures, local exhaust wo rother engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, minitain airborne levels below recommended exposure exposure limits have not been established, minitain airborne levels below recommended exposure exposure limits have not been established, manitain a	Components	Т	уре	Va	lue	
Carbon Dioxide (CAS 142-83-9)  Carbon Dioxide (CAS 142-83-9)  TWA 30000 ppm 9000 mg/m3 50000 ppm 18000 mg/m3 440 ppm 1800 mg/m3 440 ppm 1800 mg/m3 440 ppm 17WA 350 mg/m3 450 ppm 17WA 350 mg/m3 180 180 ppm 17WA 375 mg/m3 100 ppm 17WA 100 ppm	Acetone (CAS 67-64-1)	Т	WA		5	
124-38-9)       30000 ppm         TWA       9000 mg/m3         5000 ppm       5000 ppm         n-Heptane (CAS 142-82-5)       Ceiling       1800 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         ACGIH Biological Exposure Indices       500 ppm       150 ppm         Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       *         O.03 mg/l       O-Cresol, with       Creatinine in       *         O.03 mg/l       Toluene       Blood       *         * - For sampling details, please see the source document.       Skin designation       *         Toluene (CAS 108-88-3)       Can be absorbed through the skin.       US - California OELs: Skin designation applies.         US - California OELs: Skin designation applies       Can be absorbed through the skin.       Skin designation applies.         uppropriate engineering ontrols to maintain ainforme levels blow recommende exposure exposure infinits and emergency shower must be available, was process enclosures, local exhaust we or other engineering controls to maintain ainforme levels to an acceptable lev was facilities and emergency shower must be available when handling this product.         hydrolysis		-				
n-Heptane (CAS 142-82-5)     Ceiling     1800 mg/m3       n-Heptane (CAS 142-82-5)     Ceiling     1800 mg/m3       TVVA     350 mg/m3     440 ppm       TVVA     350 mg/m3     55 ppm       Toluene (CAS 108-88-3)     STEL     560 mg/m3       TVVA     375 mg/m3     100 ppm       Biological limit values     TVVA     375 mg/m3       Acctone (CAS 67-64-1)     50 mg/l     Acctone     Urine     •       Toluene (CAS 108-88-3)     0.3 mg/g     o-Cresol, with     Creatinine in     •       Toluene (CAS 108-88-3)     0.3 mg/g     o-Cresol, with     Creatinine in     •       Toluene (CAS 108-88-3)     0.3 mg/g     o-Cresol, with     Creatinine in     •       Toluene (CAS 108-88-3)     0.3 mg/g     o-Cresol, with     creatinine in     •       Toluene (CAS 108-88-3)     0.3 mg/g     o-Cresol, with     creatinine in     •       US - Minesotta Haz Subic     Skin designation     •     •     •       Toluene (CAS 108-88-3)     God general ventilation (typically 10 air changes per hour) should be used. Ventilation robutols     •     •       VS - Minesotta Haz Subic     Skin designation applies.     God general ventilation (typically 10 air changes per hour) should be used. Ventilation robutols be available with analyticone levels below recommended exposure woth been estables f		8	FIEL	54	000 mg/m3	
n-Heptane (CAS 142-82-5)       Ceiling       1800 mg/m3 440 ppm         TWA       350 mg/m3 85 ppm         Toluene (CAS 108-88-3)       STEL       560 mg/m3 150 ppm         Toluene (CAS 108-88-3)       STEL       560 mg/m3 150 ppm         RCGHH Biological Exposure Indices Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 676-41)       50 mg/l       Acetone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/l       Acetone       Urine       •         0.02 mg/l       Toluene       Blood       •       •         * - For sampling details, please see the source document.       •       •       •       •         Stological lines       US - California OELS: Skin designation       Can be absorbed through the skin.       •       •         Stological engineering       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation in should be matched to conditions. If applicable, use process enclosures, local exhaust we wash facilities and emergency shower must be available when handling this product.         torottols       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation in should be matched to conditions. If applicable, use process enclosures, local exhaust we wash facilities and emergency shower must be available when handling this product.         torottols						
n-Heptane (CAS 142-82-5) Ceiling 440 ppm 440 ppm 350 mg/m3 456 ppm TV/A 350 mg/m3 85 ppm TV/A 375 mg/m3 100 ppm TV/A 375 mg/m3 TV/A 400 ppm TV/A 400 ppm		Т	WA		-	
Toluene (CAS 108-88-3)       TWA       360 mg/m3         Toluene (CAS 108-88-3)       STEL       560 mg/m3         TWA       150 ppm         TWA       375 mg/m3         100 ppm       100 ppm         Stological limit values       ACGIH Biological Exposure Indices         Components       Value       Determinant       Specime         Acctone (CAS 67-64-1)       50 mg/l       Acctone       Urine       *         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with hydrolysis       Creatinine in       *         0.03 mg/l       Toluene       Urine       *       *       •         0.02 mg/l       Toluene       Blood       *       *         * - For sampling details, please see the source document.       :       :       :       :         Stolouen (CAS 108-88-3)       Can be absorbed through the skin.       US       :       :         Toluene (CAS 108-88-3)       Stin designation applies       Stin designation applies       :       :         Toluene (CAS 108-88-3)       Sood general ventilation (typically 10 air changes per hour) should be used. Ventilation is should be matched to conditions. If applicable, use process enclosures, local exhaust we or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been establi	n-Hontone (CAS 1/2-82-5		eiling		••	
Toluene (CAS 108-88-3)       STEL       560 mg/m3         STEL       560 mg/m3         150 ppm       150 ppm         TWA       375 mg/m3         100 ppm       100 ppm         Stological limit values       ACGIH Biological Exposure Indices         ACGIH Biological Exposure Indices       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with       Creatainine in       •         0.03 mg/l       Toluene       Urine       •       •         0.03 mg/l       Toluene       Urine       •       •         0.03 mg/l       Toluene       Urine       •       •         0.02 mg/l       Toluene       Urine       •       •         VS - California OELs: Skin designation       Toluene (CAS 108-88-3)       Can be absorbed through the skin.       US         US - Minnesota Haz Subis: Skin designation applies       Skin designation applies       Good general ventilation (typically 10 air changes per thour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust we was facilities and emergency shower must be available when handing this product.         htps://dace protection       <		,,	Jennig		5	
Toluene (CAS 108-88-3)       STEL       560 mg/m3 150 ppm TWA         375 mg/m3 100 ppm         Biological limit values         ACGIH Biological Exposure Indices Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       *         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with O-03 mg/l       Creatinine in       *         0.03 mg/l       Toluene       Urine       *       •         0.03 mg/l       Toluene       Urine       *       •         0.03 mg/l       Toluene       Blood       *       •         0.03 mg/l       Toluene       Blood       *       •         US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       •       •         US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3)       Can be absorbed through the skin.       •       •         Vpropriate engineering controls       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be a		Т	WA			
TWA       150 ppm 375 mg/m3 100 ppm         Biological limit values       ACGIH Biological Exposure Indices Components       Determinant       Specimen       Sampling Time         ACGIH Biological Exposure Indices Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with       Creatinine in       •         0.02 mg/l       Toluene       Urine       •       •         0.02 mg/l       Toluene       Blood       •       •         * - For sampling details, please see the source document.       Exposure guidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       US - Minnesota Haz Subs:       Skin designation applies.         Nporporiate engineering bontrols       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation is should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommende					5	
TWA       375 mg/m3 100 ppm         Biological limit values         ACGIH Biological Exposure Indices         Components       Value       Determinant       Specimen       Sampling Time         Acctone (CAS 67-64-1)       50 mg/l       Accetone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with hydrolysis       Creatinine in       •         0.03 mg/l       Toluene       Urine       •       •         0.03 mg/l       Toluene       Blood       •         * - For sampling details, please see the source document.       •       •       •         copsure guidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       •         US - Minnesota Haz Subs:       Skin designation applies       Skin designation applies.       Skin designation applies.         rontrols       Sodo general ventilation (typically 10 air changes per hour) should be used. Ventilation if should be matched to conditions. If applicable, use process enclosures, local exhaust we or other engineering controls to maintain aiborne levels below recommended exposure wash facilities and emergency shower must be available when handling this product.         http://date protection       Wear appropriate chemical resistant gloves.       Hand protection       Wear appropriate chemical resistan	Toluene (CAS 108-88-3)	S	STEL	56	0 mg/m3	
100 pm         Balogical Exposure Indices         ACGIH Biological Exposure Indices       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       •         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with hydrolysis       Creatinine in       •         0.03 mg/l       Toluene       Urine       •       •         0.02 mg/l       Toluene       Blood       •         * - For sampling details, please see the source document.       Exposure guidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       US - Minnesota Haz Subs: Skin designation applies         Toluene (CAS 108-88-3)       Skin designation applies       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust we or other engineering controls to maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.         Appropriate engineering wontrols       Wear safety glasses with side shields (or goggles).         Hand protection       Wear appropriate chemical resistant gloves.         Skin protection       Wear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protection       If permissible levels are exceeded use NIOS					••	
Accord Heiological Exposure Indices Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       *         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with       Creatinine in       *         0.03 mg/l       Toluene       Urine       *       *         0.03 mg/l       Toluene       Urine       *       *         0.02 mg/l       Toluene       Blood       *       *         * - For sampling details, please see the source document.       *       *       *       *         ixportering uidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       US + Minnesota Haz Subs: Skin designation applies.         Vspropriate engineering ontrols       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established.       *         Hand protection       Wear appropriate chemical resistant glov		Т	WA		6	
ACGIH Biological Exposure Indices Components       Value       Determinant       Specimen       Sampling Time         Acetone (CAS 67-64-1)       50 mg/l       Acetone       Urine       *         Toluene (CAS 108-88-3)       0.3 mg/g       o-Cresol, with       Creatinine in       *         0.03 mg/l       Toluene       Urine       *       *         0.03 mg/l       Toluene       Urine       *       *         * - For sampling details, please see the source document.       *       *       *       *         ixposure guidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.       *         US - Minnesota Haz Subs: Skin designation applies       Skin designation applies.       *       Skin designation applies.         vontrols       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels below recommended				10	0 ppm	
ComponentsValueDeterminantSpecimenSampling TimeAcetone (CAS 67-64-1)50 mg/lAcetoneUrine•Toluene (CAS 108-88-3)0.3 mg/go-Cresol, with hydrolysisCreatinine in•0.03 mg/lTolueneUrine•0.02 mg/lTolueneUrine•* - For sampling details, please see the source document.Exposure guidelinesUS - California OELs: Skin designation Toluene (CAS 108-88-3)Can be absorbed through the skin.US - California OELs: Skin designation Toluene (CAS 108-88-3)Can be absorbed through the skin.US - Minnesota Haz Subs:Skin designation appliesToluene (CAS 108-88-3)Good general ventilation (typically 10 air changes per hour) should be used. Ventilation or should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Skin protectionWear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommend skin protectionRespiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	-					
Toluene (CAS 108-88-3)0.3 mg/go-Cresol, with hydrolysisCreatinine in0.03 mg/lTolueneUrine*0.03 mg/lTolueneUrine*0.02 mg/lTolueneBlood** - For sampling details, please see the source document.ExposureguidelinesUS - California OELs:Skin designation Toluene (CAS 108-88-3)Can be absorbed through the skin.US - California OELs:Skin designation appliesSkin designation applies.Toluene (CAS 108-88-3)Can be absorbed through the skin.US - Minnesota Haz Subs:Skin designation applies.Toluene (CAS 108-88-3)Skin designation applies.Napropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation 1 should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Skin protectionWear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protectionRespiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.			Determinant	Specimen	Sampling Time	
hydrolysisurine0.03 mg/lTolueneUrine*0.02 mg/lTolueneBlood** - For sampling details, please see the source document.Blood*Exposure guidelinesUS - California OELs: Skin designation Toluene (CAS 108-88-3)Can be absorbed through the skin.US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3)Skin designation applies.Source (CAS 108-88-3)Good general ventilation (typically 10 air changes per hour) should be used. Ventilation i should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering ochtrols to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection Kear appropriate chemical resistant gloves.Wear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protectionRespiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		•			*	
0.03 mg/l       Toluene       Urine       *         0.02 mg/l       Toluene       Blood       *         * - For sampling details, please see the source document.       *       *         Exposure guidelines       US - California OELs: Skin designation Toluene (CAS 108-88-3)       Can be absorbed through the skin.         US - Minnesota Haz Subs:       Skin designation applies       Skin designation applies.         Toluene (CAS 108-88-3)       Skin designation applies.         Oppropriate engineering controls       Good general ventilation (typically 10 air changes per hour) should be used. Ventilation in should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.         Individual protection measures, such as personal protective equipment       Eye/face protection         Hand protection       Wear appropriate chemical resistant gloves.         Skin protection       Wear appropriate chemical resistant clothing. Use of an impervious apron is recommend         Skin protection       If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	Toluene (CAS 108-88-3)	0.3 mg/g			*	
0.02 mg/lTolueneBlood** - For sampling details, please see the source document.Exposure guidelinesUS - California OELs: Skin designationToluene (CAS 108-88-3)US - Minnesota Haz Subs: Skin designation appliesToluene (CAS 108-88-3)Skin designation applies.Toluene (CAS 108-88-3)Skin designation applies.Toluene (CAS 108-88-3)Skin designation applies.Syppropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation is should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, such as personal protective equipment Eye/face protectionWear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant gloves.Skin protection Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		0.03 mg/l			*	
* - For sampling details, please see the source document. Exposure guidelines US - California OELs: Skin designation Toluene (CAS 108-88-3) US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3) Skin designation applies. Toluene (CAS 108-88-3) Skin designation applies. Sourcel (CAS 108-88-3) Skin designation applies. Such as personal protective to conditions. If applicable, use process enclosures, local exhaust very exposure limits have not been established, maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable level wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Eye/face protection Mear appropriate chemical resistant gloves. Skin protection Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protection Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		•			*	
Exposure guidelinesUS - California OELs: Skin designation Toluene (CAS 108-88-3)Can be absorbed through the skin.US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3)Skin designation applies.Appropriate engineering sontrolsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation to should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Skin protectionSuch as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protection OtherWear appropriate chemical resistant gloves.Skin protection Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	* - For compling details of	5		2.000		
US - California OELs: Skin designation Toluene (CAS 108-88-3) US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3) Skin designation applies. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation in should be matched to conditions. If applicable, use process enclosures, local exhaust very or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable levy wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Eye/face protection Hand protection Wear appropriate chemical resistant gloves. Skin protection Other Skin protection Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.						
Toluene (CAS 108-88-3)Can be absorbed through the skin.US - Minnesota Haz Subs:Skin designation appliesToluene (CAS 108-88-3)Skin designation applies.Appropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation to should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Eye/face protection OtherSuch as personal protective equipment Wear safety glasses with side shields (or goggles).Kin protection OtherWear appropriate chemical resistant gloves.Skin protection Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	-	in decignation				
US - Minnesota Haz Subs: Skin designation applies Toluene (CAS 108-88-3) Appropriate engineering controls Scott of should be matched to conditions. If applicable, use process enclosures, local exhaust very and protection measures, such as personal protective equipment Eye/face protection Mear appropriate chemical resistant gloves. Skin protection Skin protection Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		•	Conh	abaarbad throu	ah tha akin	
Toluene (CAS 108-88-3)Skin designation applies.Appropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation or should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Eye/face protectionsuch as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protection OtherWear appropriate chemical resistant gloves.Skin protection Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended air-supplied respirator.Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.				e absorbed through	gri trie skin.	
Appropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation is should be matched to conditions. If applicable, use process enclosures, local exhaust very or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product.Individual protection measures, Eye/face protectionsuch as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protection OtherWear appropriate chemical resistant gloves.Skin protection Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended appropriate chemical resistant clothing. Use of an impervious apron cartridge air-supplied respirator.		-		esignation applie	e e	
sontrols should be matched to conditions. If applicable, use process enclosures, local exhaust ve or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Other Wear appropriate chemical resistant gloves. Skin protection Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended Skin protection Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		-		• • • •		rates
exposure limits have not been established, maintain airborne levels to an acceptable lev wash facilities and emergency shower must be available when handling this product. Individual protection measures, Eye/face protection Hand protection Wear safety glasses with side shields (or goggles). Wear appropriate chemical resistant gloves. Skin protection Other Skin protection Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.						
wash facilities and emergency shower must be available when handling this product.ndividual protection measures, Eye/face protectionsuch as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protectionSkin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.						
Individual protection measures, Eye/face protectionsuch as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommend Skin protectionOtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommend air-supplied respirator.						el. Eye
Eye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionOtherOtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommendSkin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridgeair-supplied respirator.	ividual protection measur				le when handling this product.	
Hand protectionWear appropriate chemical resistant gloves.Skin protectionOtherOtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommendSkin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridgeair-supplied respirator.	-	-				
Skin protection       Other       Wear appropriate chemical resistant clothing. Use of an impervious apron is recommend         Skin protection       Respiratory protection       If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.						
Other       Wear appropriate chemical resistant clothing. Use of an impervious apron is recommend         Skin protection       If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	-	·· ·	0			
Skin protection       If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.	-	Wear appropria	te chemical resistant c	lothing. Use of ar	n impervious apron is recommend	ded.
Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge air-supplied respirator.		r - 1		<b>J</b>		
air-supplied respirator.	-	If normissible la	vals are exceeded use		ical filter / organic vapor cartridge	oran
Thermal hazards Wear appropriate thermal protective clothing, when necessary.	Respiratory protection			NICOLINECIIAN	ical litter / organic vapor cartiloge	or an
	Thermal hazards	Wear appropria	Wear appropriate thermal protective clothing, when necessary.			
General hygiene When using, do not eat, drink or smoke. Always observe good personal hygiene measur	neral hygiene	neral hygiene When using, do not eat, drink or smoke. Always observe good personal hygiene measures, si			res, su	
		as washing afte	as washing after handling the material and before eating, drinking, and/or smoking. Routinely			

Physical state	Liquid.
Form	Aerosol. Compressed gas.
Product name: 14 OZ MALCO BRAK	E PARTS CLEANER LB 12PK

Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	145.77 °F (63.21 °C) estimated
Flash point	15.8 °F (-9.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	8191.75 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	0.655 estimated
VOC (Weight %)	84.49 % estimated
10. Stability and reactivity	,
Depetivity	The product is stable and per reactive under normal conditions of use, starage and transport

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Aluminum.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Inhalation	May cause damage to organs through prolonged or repeated exposure by 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.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

ute toxicity	May be fatal if swallowed and er	
omponents	Species	Test Results
etone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
Oral		J.
LD50	Rat	5800 mg/kg
		2.2 ml/kg
Heptane (CAS 142-82-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 29.29 mg/l, 4 Hours
luene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	6405 - 7436 ppm, 6 Hours
		5320 ppm, 8 Hours
	Rat	5879 - 6281 ppm, 6 Hours
		12.5 - 28.8 mg/l, 4 Hours
Oral		
LD50	Rat	5000 mg/kg
	be based on additional component	data not shown.
in corrosion/irritation	Causes skin irritation.	
rious eye damage/eye Itation	Causes serious eye irritation.	
espiratory or skin sensitizatio	n	
Respiratory of skin sensitization	Not available.	
Skin sensitization	This product is not expected to a	cause skin sensitization.
erm cell mutagenicity		duct or any components present at greater than 0.1% are
an our matagemony	mutagenic or genotoxic.	
arcinogenicity	This product is not considered to	be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Toluene (CAS 108-88-3)		3 Not classifiable as to carcinogenicity to humans.
	ed Substances (29 CFR 1910.100	1-1050)
Not listed.		
eproductive toxicity	Suspected of damaging the unb	orn child

Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Respiratory system. Skin. Kidneys. Central nervous system. Eyes. Liver. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

## 12. Ecological information

otoxicity	Toxic to a	quatic life with long lasting effects.	
Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Algae	IC50	Algae	433.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	7.645 mg/L, 48 Hours
		Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Partition coefficient n-octan	ol / water (log Kow)	
Acetone	-0.24	
n-Heptane	4.66	
Toluene	2.73	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
13. Disposal considerations		

Disposal instructions	Consult authorities before disposal. 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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste	U List: Reference
Acetone (CAS 67-64-1) Toluene (CAS 108-88-3)	U002 U220
Waste from residues / unused products	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).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

#### DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
<b>T</b> I - I - I - I - I - I - I - I - I - I -	

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 and both may be displayed concurrently.

#### IATA

UN number UN proper shipping name	UN1950 Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s) Packing	2.1
group Environmental	Not applicable. Yes
hazards ERG Code	10L
Special precautions for user	
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s) Packing	2.1
group Environmental	Not applicable.
hazards	
Marine pollutant	Yes
EmS	F-D, S-U
Special precautions for user	instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.







IMDG Regulated Marine Pollutant.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Acetone (CAS 67-64-1) Listed. Toluene (CAS 108-88-3) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Fire Hazard - Yes Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 311/312 Hazardous No chemical name <u>CAS number</u> % by wt. Toluene 108-88-3 1 - 2.5				
Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)         Acetone (CAS 67-64-1)       Listed.         Toluene (CAS 108-88-3)       Listed.         SARA 304 Emergency release notification       Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)       Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)       Hazard categories         Hazard categories       Immediate Hazard - Yes         Delayed Hazard - Yes       Pressure Hazard - Yes         Reactivity Hazard - No       SARA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous         SARA 313 (TRI reporting)       CAS number       % by wt.	US federal regulations	Standard, 29 CFR 1910.1200	).	-
CERCLA Hazardous Substance List (40 CFR 302.4) Acetone (CAS 67-64-1) Listed. Toluene (CAS 108-88-3) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt.	TSCA Section 12(b) Export	Notification (40 CFR 707, Sub	pt. D)	
Acetone (CAS 67-64-1)       Listed.         Toluene (CAS 108-88-3)       Listed.         SARA 304 Emergency release notification       Not regulated.         Not regulated.       OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)         Not listed.       Superfund Amendments and Reauthorization Act of 1986 (SARA)         Hazard categories       Immediate Hazard - Yes         Delayed Hazard - Yes       Delayed Hazard - Yes         Fire Hazard - Yes       Pressure Hazard - Yes         Reactivity Hazard - No       SARA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous         SARA 311/312 Hazardous       No         chemical       SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.	Not regulated.			
Toluene (CAS 108-88-3)       Listed.         SARA 304 Emergency release notification       Not regulated.         Not regulated.       OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)         Not listed.       Superfund Amendments and Reauthorization Act of 1986 (SARA)         Hazard categories       Immediate Hazard - Yes         Delayed Hazard - Yes       Delayed Hazard - Yes         Pressure Hazard - Yes       Pressure Hazard - Yes         Reactivity Hazard - Yes       Reactivity Hazard - No         SARA 302 Extremely hazardous substance       No         chemical       No         SARA 311/312 Hazardous       No         chemical       SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.	CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Pressure Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - Yes Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt.				
Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)         Not listed.         Superfund Amendments and Reauthorization Act of 1986 (SARA)         Hazard categories       Immediate Hazard - Yes         Delayed Hazard - Yes         Delayed Hazard - Yes         Pressure Hazard - Yes         Pressure Hazard - Yes         Reactivity Hazard - No         SARA 302 Extremely hazardous substance         Not listed.         SARA 311/312 Hazardous       No         chemical         SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.			Listed.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt.	SARA 304 Emergency releas	se notification		
Superfund Amendments and Reauthorization Act of 1986 (SARA)         Hazard categories       Immediate Hazard - Yes         Delayed Hazard - Yes         Fire Hazard - Yes         Pressure Hazard - Yes         Pressure Hazard - Yes         Reactivity Hazard - No         SARA 302 Extremely hazardous substance         Not listed.         SARA 311/312 Hazardous       No         chemical         SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.	5	d Substances (29 CFR 1910.1	1001-1050)	
Hazard categories       Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Reactivity Hazard - Yes Reactivity Hazard - No         SARA 302 Extremely hazardous substance Not listed.       No         SARA 311/312 Hazardous       No         chemical       SARA 313 (TRI reporting) Chemical name         CAS number       % by wt.	Not listed.			
Hazard categories       Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Reactivity Hazard - Yes Reactivity Hazard - No         SARA 302 Extremely hazardous substance Not listed.       No         SARA 311/312 Hazardous       No         chemical       SARA 313 (TRI reporting) Chemical name         CAS number       % by wt.	Superfund Amendments and Re	authorization Act of 1986 (SA	RA)	
Not listed.         SARA 311/312 Hazardous       No         chemical         SARA 313 (TRI reporting)         Chemical name       CAS number       % by wt.	-	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes		
SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt.	SARA 302 Extremely hazard	dous substance		
chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt.	Not listed.			
Chemical name CAS number % by wt.		No		
Toluene 108-88-3 1 - 2.5	( I U)		CAS number	% by wt.
	Toluene		108-88-3	1 - 2.5

Other federal regulations					
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List					
Toluene (CAS 108-88-3)	Toluene (CAS 108-88-3) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)				
	Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.				
		Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and			
Acetone (CAS 67-64 Toluene (CAS 108-8	38-3) 6594	4			
		Chemical Mixtures (21 CFR 1310.12(c))			
Acetone (CAS 67-64 Toluene (CAS 108-8 DEA Exempt Chemical		%WV %WV			
Acetone (CAS 67-64 Toluene (CAS 108-8					
US state regulations					
US. Massachusetts RTK - S	ubstance List				
Acetone (CAS 67-64-1) Carbon Dioxide (CAS 12 n-Heptane (CAS 142-82 Toluene (CAS 108-88-3)	5)				
-	Community Right-to-Know Act				
Carbon Dioxide (CAS 12 n-Heptane (CAS 142-82 Toluene (CAS 108-88-3)	Acetone (CAS 67-64-1) Carbon Dioxide (CAS 124-38-9) n-Heptane (CAS 142-82-5) Toluene (CAS 108-88-3)				
US. Pennsylvania Worker a Acetone (CAS 67-64-1) Carbon Dioxide (CAS 12 n-Heptane (CAS 142-82 Toluene (CAS 108-88-3)	5)				
US. Rhode Island RTK Acetone (CAS 67-64-1) Toluene (CAS 108-88-3)					
US. California Proposition	65	te of California to cause birth defects or other reproductive			
harm.		•			
Toluene (CAS 108-8		ed: January 1, 1991			
	tion 65 - CRT: Listed date/Female re				
Toluene (CAS 108-8	(8-3) LIST	ed: August 7, 2009			
International Inventories			()*		
Country(s) or region Australia	Inventory name Australian Inventory of Chemical Su	Un inventory (yes/	/no)" No		
Canada	Domestic Substances List (DSL)		Yes		
Canada	Non-Domestic Substances List (ND	SL)	No		
China	Inventory of Existing Chemical Subs		No		
Europe	European Inventory of Existing Corr Substances (EINECS)		No		
Europe	European List of Notified Chemical	Substances (ELINCS)	No		
Japan	Inventory of Existing and New Chen	nical Substances (ENCS)	No		
Korea	Existing Chemicals List (ECL)		No		
New Zealand	New Zealand Inventory		No		
Philippines	Philippine Inventory of Chemicals ar (PICCS)	nd Chemical Substances	Yes		

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	04-17-2015
Version #	01
Disclaimer	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.
Revision Information	Product and Company Identification: Alternate Trade Names

Yes