

# Safety Data Sheet

## Contact Cleaner

SDS Revision Date:

07/01/2018



Sid Harvey item # F2-90

SDS # Z0065

### 1. Identification

#### 1.1. Product identifier

**Product Identity**

Contact Cleaner

**Alternate Names**

55-120, Blended Formula

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

See Technical Data Sheet.

**Application Method**

See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name**

ComStar International Inc.  
20-45 128th Street,  
College Point, NY 11356

**Telephone No.**

718-445-7900  
800-328-0142  
Fax: 718-353-5998

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture Flammable Liquids and Vapor; H225

Press. Gas; H280

Contains gas under pressure; may explode if heated.

Skin Irrit. 2; H315

Causes skin irritation.

Eye Irrit. 2; H319

Causes serious eye irritation.

Muta. 2; H341

Suspected of causing genetic defects.

Carc. 1 B; H350

May cause cancer.

STOT SE 3; H336

May cause drowsiness or dizziness.

Aquatic Chronic 2; H411

Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

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H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

### **[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

### **[Response]:**

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P321 Specific treatment (see information on this label).

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

### **[Storage]:**

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 Protect from sunlight.

### **[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.



### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
PERCHLOROETHYLENE	25 – 50	Carc. 2; H351 Aquatic Chronic 2; H411	[1][2]
CARBON DIOXIDE CAS# 0000124-38-9	1.0 – 10	Press GAS H280 Simple Asphyxiant	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Overview** No specific symptom data available. Reproductive or genetic defect hazard. See section 2 for further details.
- Inhalation** May cause drowsiness or dizziness.
- Eyes** Causes serious eye irritation.
- Skin** Causes skin irritation.



## 5. Fire-fighting measures

### 5.1. Extinguishing media

Use dry chemical, COL or foam to extinguish fire.

Cool fire exposed container with water.

Water may be ineffective as an extinguishing agent.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Do not get in eyes, on skin, or on clothing.

### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

Aerosols are under pressure. Exposure more than 120 F may cause bursting of can.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

For Large Spills: Flush spill area with water spray. Prevent run-off from entering drains, sewers, or streams, collect run-off.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Wash thoroughly after handling. Do not breathe vapors or fumes.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials, alkalis and acids. Store away from heat, sunlight and moisture.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.



Incompatible materials: Oxidizing agents, alkali metals

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

No data available.

**8. Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
127-18-4	PERCHLOROETHYLENE	OSHA	25 ppm
		ACGIH	25 ppm
		NIOSH	Not Available
		Supplier	Not Available
0000124-38-9	CARBON DIOXIDE	OSHA	TWA 5000 ppm (9000 mg/m3)
		ACGIH	TWA: 5000 ppm Ceiling: 15000 ppm
		NIOSH	TWA 5000 ppm (9000 mg/m3) ST 30,000 ppm (54,000 mg/m3)
		Supplier	No Established Limit

**8.2. Exposure controls**

**Respiratory** If engineering controls do not maintain airborne concentrations to an acceptable level,  
a

NIOSH approved respirator must be worn.

Respirator Type: Organic vapor. If respirators are used, a program should be instituted to assure Compliance with OSHA Standard 29 CFR 1910.134.

**Eyes** Safety glasses with side shields, goggles or face shield are recommended.

**Skin** Wear overalls to keep skin contact to a minimum.

**Engineering Controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc. Recommended Decontamination Facilities: Eye bath, washing facilities.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:



**9. Physical and chemical properties**

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Perch odor
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	160 F (71 C)
<b>Flash Point</b>	None, TOC
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> 135C(275F): NA <b>Upper Explosive Limit:</b> 199C(390F): NA
<b>Vapor pressure (Pa)</b>	95 psig (at 70 F)
<b>Vapor Density</b>	> 1 (Air = 1)
<b>Specific Gravity</b>	Not Measured
<b>Solubility in Water</b>	Negligible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	(ASTM D 2155): NA
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	at 25C/77F: NA
<b>Volatiles (% by weight)</b>	NA
<b>Octanol/Water Partition Coefficient</b>	NA

**9.2. Other information**

No other relevant information.



**10. Stability and reactivity**

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

Avoid heat, sparks, flames and other sources of ignition

**10.4. Conditions to avoid**

Avoid heat, sparks, flames and other sources of ignition

**10.5. Incompatible materials**

Oxidizing agents, alkali metals

**10.6. Hazardous decomposition products**

No hazardous decomposition data available.

**11. Toxicological information**

**Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
PERCHLOROETHYLENE CAS # 127-18-4	No data available	No data available	No data available	No data available	No data available
CARBON DIOXIDE CAS# 124-38-9	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	--2	May cause cancer
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	--2	May cause cancer
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.

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STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

Harmful to aquatic life.

#### Aquatic Ecotoxicity

Ingredient	96 hr. LC50 fish, mg/l	48 hr. EC50 crustacea, mg/l	ErC50 algae, mg/l
PERCHLOROETHYLENE CAS# 127-18-4	Not Available	Not Available	Not Available
CARBON DIOXIDE CAS# 124-38-9	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.





**13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

**14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	UN1950	UN1950	UN1950
<b>14.2. UN proper shipping name</b>	UN1950, Aerosols, Non-Flammable, (each not exceeding 1 L capacity), 2.2, ORM-D	Aerosols, Non-Flammable, (each not exceeding 1 L capacity)	Aerosols, Non-Flammable, (each not exceeding 1 L capacity)
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> 2.2	<b>IMDG:</b> 2.2 <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> 2.2
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: Yes (Tetrachloroethylene)		
<b>14.6. Special precautions for user</b>			
	No further information		

**15. Regulatory information**

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act (TSCA)</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.
<b>WHMIS Classification</b>	D2A

**US EPA Tier II Hazards**

**Fire:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** Yes

**EPCRA 311/312 Chemicals and RQs (lbs):**



Tetrachloroethylene (100.00)  
1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

Tetrachloroethylene (100.00)  
1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

**Proposition 65 - Carcinogens (>0.0%):**

Tetrachloroethylene (100.00)  
1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

**New Jersey RTK Substances (>1%):**

Tetrachloroethylene (100.00)

**Pennsylvania RTK Substances (>1%):**

Tetrachloroethylene (100.00)

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

End of Document

# Safety Data Sheet

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05/01/2015



### 1. Identification

#### 1.1. Product identifier

**Product Identity** Contact Cleaner  
**Alternate Names** 55-120, Blended Formula

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.  
**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** ComStar International Inc.  
20-45 128th Street,  
College Point, NY 11356  
**Telephone No.** 718-445-7900  
800-328-0142  
Fax: 718-353-5998

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture Flammable Liquids and Vapor; H225

Press. Gas;H280 Contains gas under pressure; may explode if heated.  
Skin Irrit. 2;H315 Causes skin irritation.  
Eye Irrit. 2;H319 Causes serious eye irritation.  
Muta. 2;H341 Suspected of causing genetic defects.  
Carc. 1 B;H350 May cause cancer.  
STOT SE 3;H336 May cause drowsiness or dizziness.  
Aquatic Chronic 2;H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

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H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

### **[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

### **[Response]:**

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P321 Specific treatment (see information on this label).

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

### **[Storage]:**

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 Protect from sunlight.

### **[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

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### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
PERCHLOROETHYLENE	25 – 50	Carc. 2;H351 Aquatic Chronic 2;H411	[1][2]
CARBON DIOXIDE CAS# 0000124-38-9	1.0 – 10	Press GAS H280 Simple Asphyxiant	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

##### General

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

##### Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

##### Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

##### Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

##### Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Overview

No specific symptom data available.  
Reproductive or genetic defect hazard. See section 2 for further details.

##### Inhalation

May cause drowsiness or dizziness.

##### Eyes

Causes serious eye irritation.

##### Skin

Causes skin irritation.

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### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Use dry chemical, COL or foam to extinguish fire.

Cool fire exposed container with water.

Water may be ineffective as an extinguishing agent.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Do not get in eyes, on skin, or on clothing.

#### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

Aerosols are under pressure. Exposure in excess of 120 F may cause bursting of can.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

For Large Spills: Flush spill area with water spray. Prevent run-off from entering drains, sewers, or streams, collect run-off.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Wash thoroughly after handling. Do not breathe vapors or fumes.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials, alkalis and acids. Store away from heat, sunlight and moisture.

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

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Incompatible materials: Oxidizing agents, alkali metals

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
127-18-4	PERCHLOROETHYLENE	OSHA	25 ppm
		ACGIH	25 ppm
		NIOSH	Not Available
		Supplier	Not Available
0000124-38-9	CARBON DIOXIDE	OSHA	TWA 5000 ppm (9000 mg/m <sup>3</sup> )
		ACGIH	TWA: 5000 ppm Ceiling: 15000 ppm
		NIOSH	TWA 5000 ppm (9000 mg/m <sup>3</sup> ) ST 30,000 ppm (54,000 mg/m <sup>3</sup> )
		Supplier	No Established Limit

### 8.2. Exposure controls

#### Respiratory

If engineering controls do not maintain airborne concentrations to an acceptable level,  
a

NIOSH approved respirator must be worn.

Respirator Type: Organic vapor. If respirators are used, a program should be instituted to assure Compliance with OSHA Standard 29 CFR 1910.134.

#### Eyes

Safety glasses with side shields, goggles or face shield are recommended.

#### Skin

Wear overalls to keep skin contact to a minimum.

#### Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc. Recommended Decontamination Facilities: Eye bath, washing facilities.

#### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:



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### 9. Physical and chemical properties

Appearance	Clear Liquid
Odor	Perch odor
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	160 F (71 C)
Flash Point	None, TOC
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	<b>Lower Explosive Limit:</b> 135C(275F): NA <b>Upper Explosive Limit:</b> 199C(390F): NA
Vapor pressure (Pa)	95 psig (at 70 F)
Vapor Density	> 1 (Air = 1)
Specific Gravity	Not Measured
Solubility in Water	Negligible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	(ASTM D 2155): NA
Decomposition temperature	Not Measured
Viscosity (cSt)	at 25C/77F: NA
Volatiles (% by weight)	NA
Octanol/Water Partition Coefficient	NA

#### 9.2. Other information

No other relevant information.

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### 10. Stability and reactivity

#### 10.1. Reactivity

Hazardous Polymerization will not occur.

#### 10.2. Chemical stability

Stable under normal circumstances.

#### 10.3. Possibility of hazardous reactions

Avoid heat, sparks, flames and other sources of ignition

#### 10.4. Conditions to avoid

Avoid heat, sparks, flames and other sources of ignition

#### 10.5. Incompatible materials

Oxidizing agents, alkali metals

#### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

### 11. Toxicological information

#### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
PERCHLOROETHYLENE CAS # 127-18-4	No data available	No data available	No data available	No data available	No data available
CARBON DIOXIDE CAS# 124-38-9	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	--2	May cause cancer
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	--2	May cause cancer
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.

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STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

Harmful to aquatic life.

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
PERCHLOROETHYLENE CAS# 127-18-4	Not Available	Not Available	Not Available
CARBON DIOXIDE CAS# 124-38-9	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

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### 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

### 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	UN1950, Aerosols, Non Flammable, (each not exceeding 1 L capacity), 2.2, ORM-D	Aerosols, Non Flammable, (each not exceeding 1 L capacity)	Aerosols, Non Flammable, (each not exceeding 1 L capacity)
14.3. Transport hazard class(es)	DOT Hazard Class: 2.2	IMDG: 2.2 Sub Class: Not Applicable	Air Class: 2.2
14.4. Packing group	III	III	III
14.5. Environmental hazards			
IMDG	Marine Pollutant: Yes (Tetrachloroethylene)		
14.6. Special precautions for user	No further information		

### 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2A

#### US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

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Tetrachloroethylene (100.00)

1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

### **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **EPCRA 313 Toxic Chemicals:**

Tetrachloroethylene (100.00)

1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

### **Proposition 65 - Carcinogens (>0.0%):**

Tetrachloroethylene (100.00)

1, 2 – BUTYLENE OXIDE STABILIZERS (100.00)

### **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Male Repro Toxins (>0.0%):**

### **New Jersey RTK Substances (>1%):**

Tetrachloroethylene (100.00)

### **Pennsylvania RTK Substances (>1%):**

Tetrachloroethylene (100.00)

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats**

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Contact Cleaner**

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**are not applicable.**

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

End of Document



## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication  
And WHIMS Standard 29 CFR 1910-1200

Print Date: 06/01/08

**Product Name: CONTACT CLEANER**

**Product Number: 55-620**

### I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** ComStar International Inc.

**Tel:** 718-445-7900, 800-328-0142

**Address:** 20-45 128<sup>th</sup> Street, College Point, NY 11356

**Fax:** 718-353-5998

**Chemical Name:** Blended Formula

**Synonym(s):** None

### II - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	OSHA PEL	ACGIH TLV	CAS NO.
* PERCHLOROETHYLENE	25 ppm	25 ppm	127-18-4
CARBON DIOXIDE	10000 ppm	5000 ppm	124-38-9

\* Subject to the reporting requirements of SARA Section 313.

### III - HAZARDS IDENTIFICATION

HMIS Hazard Ratings: Health – 2, Flammability – 1, Chemical Reactivity – 0

NFPA Hazard Ratings: Health – 2, Flammability – 1, Chemical Reactivity – 0

**NOTE:** HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

### IV - FIRST-AID MEASURES

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**Skin:** Remove contaminated clothing, wash affected skin with soap and water immediately. Get medical attention if symptoms occur.

**Ingestion:** Drink plenty of water. Get immediate medical attention.

### V - FIRE FIGHTING MEASURES

**Extinguishing Media:** Water, water fog, dry chemical, carbon dioxide (CO<sub>2</sub>)

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** Unknown

**Unusual Fire and Exposure Hazards:** Aerosols are under pressure. Exposure in excess of 120 ° F may cause bursting of can.

### VI - ACCIDENTAL RELEASE MEASURES

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**For Large Spills:** Flush spill area with water spray. Prevent run-off from entering drains, sewers, or streams, collect run-off.

## VII - HANDLING AND STORAGE

**Personal Precautionary Measures:** Avoid contact with eyes and skin. Wash thoroughly after handling. Do not breathe vapors or fumes.

**Prevention of Fire and Explosion:** Keep from contact with oxidizing materials, alkalis and acids. Store away from heat, sunlight and moisture.

## VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:**

**ACGIH Threshold Limit Value (TLV):** see section II

**OSHA (USA) Permissible Exposure Limit (PEL):** see section II

**Ventilation:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations to an acceptable level, a NIOSH approved respirator must be worn.

**Respirator Type:** Organic vapor. If respirators are used, a program should be instituted to assure Compliance with OSHA Standard 29 CFR 1910.134.

**Eye Protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection:** It is a good industrial hygiene practice to minimize skin contact.

**Recommended Decontamination Facilities:** Eye bath, washing facilities

## IX - PHYSICAL AND CHEMICAL PROPERTIES

Color: Clear colorless liquid

Odor: mild ethereal odor

Odor Threshold: not available

Specific Gravity (H<sub>2</sub>O = 1): 1.55

Vapor Pressure at 70° F: 95 psig

Vapor Density (Air = 1): > 1

Evaporation Rate (n-butyl acetate = 1): < 1

Volatile Fraction by Weight: N/A

Boiling Point: (conc.) 103° F

Melting Point: Not available

Viscosity at 25° C (77° F): N/A

Solubility in Water: negligible

Octanol/ Water Partition Coefficient: not available

Flash Point: None, TOC

Lower Explosive Limit 135° C (275° F): N/A

Upper Explosive Limit 199° C (390° F): N/A

Auto ignition Temperature (ASTM D 2155): N/A

## X - STABILITY AND REACTIVITY

**Stability:** Product is considered stable.

**Incompatibility:** strong oxidizing agents and alkalis

**Hazardous Polymerization:** will not occur

## XI - TOXICOLOGICAL INFORMATION

**Inhalation:** Low hazard for usual industrial handling by trained personnel.

**Eyes:** Causes irritation and possible chemical burns.



**Skin:** Low hazard for usual industrial handling by trained personnel, see label warnings.

**Ingestion:** Dangerous if ingested.

**Acute Toxicity Data:**

**Oral LD-50 (rabbit):** not available

**Inhalation LC-50:** not available

**Human Dermal Exposure:** Regardless of concentration, the severity of damage and extent of its irreversibility increases with length of contact time. Prolonged contact with sodium hydroxide solutions of =>1% can cause a high degree of tissue destruction. The latent period, following skin contact during which no sensation of irritation occurs, varies from several hours for 0.4 – 4% solutions of 3 minutes with concentrations of 25% or greater.

## XII - ECOLOGICAL INFORMATION

**Introduction:** Leaks should be stopped. Spills should be contained and cleaned up immediately. Large liquid spills should be removed by using a vacuum truck. Solid spills should be scooped up and placed in approved containers for disposal. The spill area should then be flushed with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and placed in approved containers, labeled and stored in a safe place to await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

## XIII - DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Check with state and local officials before disposal.

## XIV - TRANSPORT INFORMATION

**DOT (USA) Status:** not regulated

**TDG (Canada) Status:** not regulated

**Air – International Civil Aviation Organization (ICAO)**

**ICAO Status:** Check with air freight forwarder for ruling.

**Sea – International Maritime Dangerous Goods (IMDG)**

**IMDG Status:** not regulated

## XV - REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 910.1200.

OSHA hazardous chemical(s): trade secret (blended formula).

Material(s) known to the State of California to cause cancer: none

Material(s) known to the State of California to cause adverse reproductive effects: none

Massachusetts Substance List: none.

New Jersey Workplace Hazardous Substance List: none

Pennsylvania Hazardous Substance List: none

This document has been prepared in accordance with the MSDS requirements of the WHMIS Controlled Products Regulation.

**WHMIS (Canada) Ingredient Disclosure List:** trade secret (blended formula).

**WHMIS (Canada) Status:** not listed.

**WHMIS (Canada) controlled material(s):** not listed.

**WHMIS (Canada) Hazard Classification:** not classified.

**Carcinogenicity Classification (components present at 0.1% or more):** None

**International Agency for Research on Cancer (IARC):** Not listed  
**American Conference of Governmental Industrial Hygienist (ACGIH):** Not listed  
**National Toxicology Program (NTP):** not listed  
**Occupational Safety and Health Administration (OSHA):** Not listed

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None.

SARA (U.S.A.) Sections 311 and 312 hazard classification(s): Not listed.

**NOTE:** *The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Material Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.*