

1 Identification

- · Product identifier
- · Trade name: CHAIN CLEAN SPRAY (US)
- Application of the substance / the mixture Chain cleaner Only for proper handling.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 BUCHER_AG_LANGENTHAL
 MOTOREX-Schmiertechnik

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS07

Eye Irrit. 2A

H319

Causes serious eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

· Signal word Danger

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· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes serious eye irritation.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P280 Wear eye protection / face protection. P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. P337+P313

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 4Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 1Fire = 4

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, 60-80	
Reg.nr.: 01-2119463258-33	cycloalkanes, <2% aromatics	
	♦ Asp. Tox. 1, H304	
CAS: 67-64-1	acetone	10-25%
Reg.nr.: 01-2119471330-49	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	Ē
CAS: 106-97-8	butane	5-10%
Reg.nr.: 01-2119474691-32	♦ Flam. Gas 1, H220; Press. Gas, H280	
CAS: 74-98-6	propane	1-2.5%
Reg.nr.: 01-2119486944-21	♦ Flam. Gas 1, H220; Press. Gas, H280	

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Remove residues with soap and water.

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· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed
 No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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

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

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

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 2 B
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Com	Components with limit values that require monitoring at the workplace:			
	4-1 acetone			
PEL	Long-term value: 2400 mg/m³, 1000 ppm			
REL	Long-term value: 590 mg/m³, 250 ppm			
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI			
106-	97-8 butane			
REL	Long-term value: 1900 mg/m³, 800 ppm			
TLV	Short-term value: 2370 mg/m³, 1000 ppm			
74-9	8-6 propane			
PEL	Long-term value: 1800 mg/m³, 1000 ppm			
REL	Long-term value: 1800 mg/m³, 1000 ppm			
TLV	refer to Appendix F inTLVs and BEIs book			
I	adiante vitte biological limit valvas.			

Ingredients with biological limit values:

67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin. • Breathing equipment: Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical prope	rties
Information on basic physical and	chemical properties
· General Information · Appearance:	
Form:	Liquefied gas
Color:	Colorless
· Odor:	green apple
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	< -20 °C (< -4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	365 °C (689 °F) (DIN 51794)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	2.6 Vol %
Upper:	13.0 Vol %
· Vapor pressure at 20 °C (68 °F):	240 hPa (180 mm Hg)
Density at 20 °C (68 °F):	0.746 g/cm³ (6.225 lbs/gal) (ASTM D 4052)
Relative density	Not determined.
Vapor density	Not determined.
· Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	<1 mm ² /s @ 40 °C (DIN 51562-1)
VOC content:	77.0 %
	707.8 g/l / 5.91 lb/gl

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· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 2 (Self-classification according VwVwS, 17.05.1999): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

UN-Number DOT, ADR,ADN, IMDG, IATA	UN1950	
UN proper shipping name DOT, IATA ADR/ADN IMDG	Aerosols, flammable 1950 Aerosols AEROSOLS	
Transport hazard class(es)		
DOT		
CONTRACT OF		
Class Label	2.1 2.1	
ADR/ADN	2.1	
Class	2 5F Gases	
Class Label	2 or Gases 2.1	
IMDG, IATA		
Class	2.1	
Label	2.1	
Packing group DOT, ADR,ADN, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	

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· Special precautions for user Warning: Gases

Danger code (Kemler):

· EMS Number: F-D,S-U

· Stowage Code SW1 Protected from sources of heat.

> SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTÉ AEROSOLS:

Category C, Clear of living quarters.

· Segregation Code SG69 For AEROSOLS with a maximum

> capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the

appropriate subdivision of class 2.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR/ADN

· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· IMDG

· Limited quantities (LQ)

Code: E0 · Excepted quantities (EQ)

Not permitted as Excepted Quantity

· UN "Model Regulation": UN 1950 AEROSOLS, 2.1

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

 Section 355 	(extremely	/ hazardous	substances	<u>):</u>
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

111-90-0 2-(2-ethoxyethoxy)ethanol

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TCCA	/Tavia	Substances	Control	1041
. 1.0UA	1 <i>1</i> (<i>) X</i> ((.	JUUSIAIIGES		ALII.

· TSCA (Toxic Substances Control Act):		
67-64-1	acetone	
106-97-8		
29911-27-1	Dipropylenglykol n-propylether	
	propane	
75-28-5	isobutane	
	isopentane	
	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	
111-90-0	2-(2-ethoxyethoxy)ethanol	

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88-41-5	2-tert-Butylcyclohexylacetat	
104-67-6	Undecan-4-olid	
	3-Methyl-2-butenylacetat	
	allyl hexanoate	
7727-37-9	nitrogen	
· Proposition	65	
· Chemicals	known to cause cancer:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
- Carcinoger	ic categories	
EPA (Enviro	onmental Protection Agency)	
67-64-1 ace	etone	
TLV (Thres	hold Limit Value established by ACGIH)	
67-64-1 ace	etone	A
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Abteilung Produktsicherheit
- · Date of preparation / last revision 03/22/2016 / -
- · Abbreviations and acronyms:

Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas: Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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