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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier •
- Trade name: MSV Multisolve
- Article number: MSV 683041 and 683042
- 1.2 Relevant identified uses of the substance or mixture and uses advised against • No further relevant information available.
- Application of the substance / the preparation Removing adhesive, degreasing and cleaning
- 1.3 Details of the supplier of the safety data sheet •
- Manufacturer/Supplier: CT1 NORGE Maskin-Elektrisk AS Øvre Storgate 136, N-3018 DRAMMEN Email: post@ct1.no
- Website: www.ct1.no
- Further information obtainable from: Product safety department. post@ct1.no
- **1.4 Emergency telephone number:** Tel: +47 22591300 (Open 24 hours 7 days a week)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 GHS02 flame A amaga1 1 11222 11220 Extremely flammable aerosol Pressurised container: May hurst if heated

e drowsiness or dizziness.
,

- Asp. Tox.1 H304 May be fatal if swallowed and enters airways.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- F+; Extremely flammable R12:

Extremely flammable.

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and R66-67: dizziness.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Harmful: may cause lung damage if swallowed.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

- 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

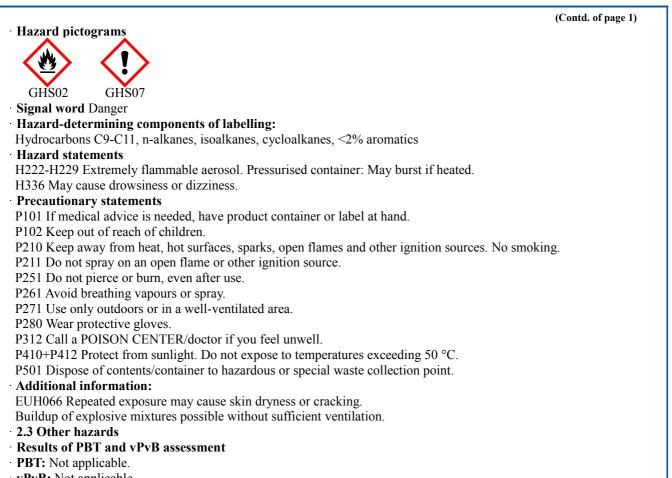
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• vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

EC number: 919-857-5	Hydrocarbons C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Xn R65 R10-66-67	50-100%
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H336	
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-	isobutane F+R12	20-25%
27-xxxx	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-	propane F+R12	10-20%
21-xxxx	Flam. Gas 1, H220; Press. Gas C, H280	

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CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-	butane F+ R12	2.5-10%
32-xxxx	🚸 Flam. Gas 1, H220; Press. Gas C, H280	
 Regulation (EC) No 648/ 	2004 on detergents / Labelling for contents	
aliphatic hydrocarbons		≥ 30%
aromatic hydrocarbons		< 5%

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- Foam

Fire-extinguishing powder

- Carbon dioxide
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Keep away from ignition sources.



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- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised 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 onto a naked flame or any incandescent material.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7. • 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 bu	ıtane
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WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

· Additional information: The lists valid during the making were used as basis.

• 8.2 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. Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

• Respiratory protection: Not necessary if room is well-ventilated.

· Recommended filter device for short term use: Filter AX

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

[·] Protection of hands:



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• Material of gloves Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.7 mm

Penetration time of glove material

 \geq 240 min

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

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic physica General Information Appearance: 	and chemical properties
Form:	Aerosol
Colour:	Colourless
· Odour:	Solvent-like
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	>200 °C
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Density at 20 °C:	0.65991 g/cm ³
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Organic solvents:	100.0 %
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Aldehyde

Carbon monoxide and carbon dioxide



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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 val	· LD/LC50 values relevant for classification:		
ATE (Acute To	ATE (Acute Toxicity Estimates)		
Inhalative	LC50/4 h	25.8 mg/l (rat)	
H ydrocarbons	H ydrocarbons C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics		
Oral	LD50	8000 mg/kg (rat)	
Dermal	LD50	4000 mg/kg (rat)	
Inhalative	LC50/4 h	<18.5 mg/l (rat)	
75-28-5 isobuta	75-28-5 isobutane		
Inhalative	LC50/4 h	>50 mg/l (rat)	
74-98-6 propan	74-98-6 propane		
Inhalative	LC50/4 h	20 mg/l (rat)	
106-97-8 butan	106-97-8 butane		

Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitisation: No sensitising effects known.

LC50/4 h

· Additional toxicological information: Vapours have narcotic effect.

658 mg/l (rat)

SECTION 12: Ecological information

12.1 Toxicity

Inhalative

· Aquatic toxicity:

Hydrocarbons C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

EC50/48 h >1000 mg/l (daphnia)

- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

- Do not allow product to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.



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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· European waste catalogue	
16 05 04	gases in pressure containers (including halons) containing dangerous substances
15 01 04 metallic packaging	

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

• 14.1 UN-Number · ADR, IMDG, IATA	UN1950
 · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
 • 14.3 Transport hazard class(es) • ADR • Class • Label 	2 5F Gases 2.1
 · IMDG, IATA · Class 2.1 · Label 2.1 	2.1 2.1
• 14.4 Packing group • ADR, IMDG, IATA	Void
 • 14.5 Environmental hazards: • Marine pollutant: 	No
 14.6 Special precautions for user Danger code (Kemler): - EMS Number: 	Warning: Gases. - F-D,S-U
 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
 Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E0 Not permitted as Excepted Quantity
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• Transport category • Tunnel restriction code	2 D
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

R10 Flammable.

R12 Extremely flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas Flam. Liq. 3: Flammable liquids, Hazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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

• * Data compared to the previous version altered.