

SAFETY DATA SHEET

1. Identification

Product identifier	Perfect 10 Aerosol		
Other means of identification			
Product Code	114520		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Malco Products, Inc. 361 Fairview Ave Barberton, OH 44203 United States		
Telephone	Phone	800-253-2526	
	Fax	330-753-2025	
Website	www.malcopro.com		
E-mail	msdsinfo@malcopro.com		
Contact person	Technical Department	4 000 404 0000	
Emergency phone number	Phone	1-800-424-9300	
2. Hazard(s) identification			
Physical hazards	Flammable aerosols		Category 1
Health hazards	Skin corrosion/irritation		Category 2
	Sensitization, skin		Category 1
	Reproductive toxicity (fertility)		Category 2
	Specific target organ toxicity, single exposure		Category 3 narcotic effects
	Specific target organ toxicity exposure	y, repeated	Category 2
	Aspiration hazard		Category 1

Environmental hazards OSHA defined hazards Label elements

> Signal word Hazard statement





Not classified.

Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction.

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. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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	65% of the mixture consists of component(s) of unknown acute oral toxicity. 65% of the mixture consists of component(s) of unknown acute inhalation toxicity. 65% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 65% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
N-butane		106-97-8	40 - < 50
n-hexane		110-54-3	20 - < 30
Naphtha (Petroleum), Hydrotreate Light	d	64742-49-0	10 - < 20
Propane		74-98-6	10 - < 20
Cyclohexane		110-82-7	< 1
Heptane		142-82-5	< 1
Other components below reportab	le levels		10 - < 20

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

4. First-aid measures

	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.
	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
0	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
symptoms/effects, acute and	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
	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	
Suitable extinguishing media	Foam. Powder. Carbon dioxide (CO2).

Suitable extinguishing media	Foam. 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. During fire, gases hazardous to health may be formed.
Special protective equipment	Firefighters must use standard protective equipment including flame retardant coat, helmet with

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	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.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. 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.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	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. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	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

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
		300 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Cyclohexane (CAS 110-82-7)	TWA	100 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
N-butane (CAS 106-97-8)	STEL	1000 ppm	
n-hexane (CAS 110-54-3)	TWA	50 ppm	

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US. NIOSH: Pocket Guide to Chemical Hazards

Components	Тур		Va	alue	
Cyclohexane (CAS 110-82-7)	TW/	TWA		1050 mg/m3	
,			30	00 ppm	
Heptane (CAS 142-82-5)	Ceil	ing	18	800 mg/m3	
			44	l0 ppm	
	TWA	4	35	50 mg/m3	
				5 ppm	
N-butane (CAS 106-97-8)	TWA	4		000 mg/m3	
				800 ppm	
n-hexane (CAS 110-54-3)	TWA	4		30 mg/m3	
		-) ppm	
Propane (CAS 74-98-6)	TWA	4		800 mg/m3	
			10	000 ppm	
Biological limit values					
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling Time	
n-hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*	
* - For sampling details, ple	ase see the source do				
Exposure guidelines					
US - California OELs: Ski	n designation				
n-hexane (CAS 110-54 US ACGIH Threshold Lim	-3)		e absorbed throu	ugh the skin.	
n-hexane (CAS 110-54	-		e absorbed throu	ugh the skin	
,	,			hour) should be used. Ventilation rates	
Appropriate engineering controls	should be matched or other engineerin exposure limits hav	to conditions. If ap ng controls to mainta	plicable, use pro ain airborne leve hed, maintain ai	bcess enclosures, local exhaust ventilation, Is below recommended exposure limits. If rborne levels to an acceptable level. Eye	
Individual protection measure	s, such as personal p	protective equipme	nt		
Eye/face protection	Wear safety glasse	Wear safety glasses with side shields (or goggles).			
Skin protection					
Hand protection	Wear appropriate of	Wear appropriate chemical resistant gloves.			
Other	Wear appropriate of	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	•	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.			
Thermal hazards	Wear appropriate t	Wear appropriate thermal protective clothing, when necessary.			
General hygiene considerations	personal hygiene r	oserve any medical surveillance requirements. When using do not smoke. Always observe good ersonal hygiene measures, such as washing after handling the material and before eating, inking, and/or smoking. Routinely wash work clothing and protective equipment to remove ontaminants.			

9. Physical and chemical properties

Appearance

Physical state	Gas.	
Form	Gaseous. Aerosol.	
Color	Colorless	
Odor	Solvent.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
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Flash point	-156.0 °F (-104.4 °C) Propellant Estimated estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.608 g/cm3 estimated
Solubility(ies)	
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.55 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.61 estimated
10. Stability and reactivity	
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 avoidAvoid temperatures exceeding the flash point. Contact with incompatible materials.Incompatible materialsStrong oxidizing agents. Chlorine. Fluorine. Nitrates.Hazardous decomposition
productsNo hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.	
Skin contact	Causes skin irritation.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.	
Information on toxicological effects		

Acute toxicity	May be fatal if swallowed and enters airways.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitizatio	n
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

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Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1052) ogram (NTP) Report on Carcinogens
Reproductive toxicity	Suspected of damaging fertility.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Components		Species	Test Results
Cyclohexane (CAS 110-82-7)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
n-hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
. ,		ditional component data not shown.	
Persistence and degradability	No data is a	vailable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octar	ol / water (log	l Kow)	
Cyclohexane		3.44	
Heptane		4.66	
N-butane		2.89	
n-hexane		3.9	
Propane		2.36	
lobility in soil	No data ava	ilable.	
Other adverse effects		verse environmental effects (e.g. ozone depl docrine disruption, global warming potential)	
13. Disposal consideratio	ns		

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

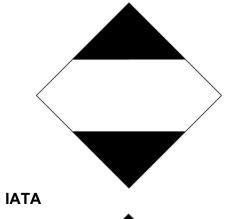
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. 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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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14. Transport information

DOT

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT; IMDG	





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15. Regulatory information

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US federal regulations	This product is a "H Standard, 29 CFR 1		efined by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR	707, Subpt. D)	
Not regulated.			
CERCLA Hazardous Substa	ance List (40 CFR 302	2.4)	
Cyclohexane (CAS 110-	82-7)	Listed.	
n-hexane (CAS 110-54-3	3)	Listed.	
SARA 304 Emergency relea	se notification		
Not regulated.			
OSHA Specifically Regulate	ed Substances (29 Cl	FR 1910.1001-1052)	
Not regulated.			
Superfund Amendments and Ro	eauthorization Act of	1986 (SARA)	
SARA 302 Extremely hazar	dous substance		
Not listed.			
Classified hazard	Flammable (gases.	aerosols, liquids, or solids	5)
categories	Skin corrosion or irr	• •	,
-	Serious eye damag	•	
	Reproductive toxicit		
	Aspiration hazard	n toxicity (single or repeat	ed exposure)
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
		110-82-7	< 1
Cyclohexane n-hexane		110-54-3	20 - < 30
Other federal regulations			20 00
•			
Clean Air Act (CAA) Section		Pollutants (HAPS) List	
n-hexane (CAS 110-54-3	,	alagaa Dravantian (40 Cl	
Clean Air Act (CAA) Section		elease Prevention (40 Cl	FR 00.130)
N-butane (CAS 106-97-8 Propane (CAS 74-98-6)	3)		
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
California Proposition	65		
WARNING: This pro	duct contains a chemi		California to cause cancer and www.P65Warnings.ca.gov.
	•	or more information go to	0 0
US. California. Candida	4. 01		
subd. (a))	te Chemicals List. S	afer Consumer Products	s Regulations (Cal. Code Regs, tit. 22, 69502.3

Naphtha (Petroleum), Hydrotreated Light (CAS 64742-49-0) N-butane (CAS 106-97-8) n-hexane (CAS 110-54-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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Country(s) or region	Inventory name	On inventory (yes/no)*	
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)			

[^]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	04-14-2016
Revision date	12-17-2019
Version #	05
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. Malco Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Hazard(s) identification: Hazard statement Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information Regulatory information: California Proposition 65 GHS: Classification

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