Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Nitro

Version number: GHS 5.0
Replaces version of: 2021-05-26 (GHS 4)

Revision: 2021-05-26

MVP Detail Supply Co, LC
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SECTION 1: Identification

1.1 Product identifier

Trade name **Nitro**

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

Relevant identified uses Tire dressing

1.3 Details of the supplier of the safety data sheet

1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
A.10	aspiration hazard	1	Asp. Tox. 1	H304
B.6	flammable liquid	2	Flam. Liq. 2	H225

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger
- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

H225 Highly flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

- Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling heptane, d-limonene

2.3 Other hazards

Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
heptane	CAS No 142-82-5	70 – < 85	Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225

Hazardous ingredients, Consideration of other advice

This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.
Exact percentage of ingredients is withheld as a trade secret.

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	heptane (n-heptane)	142-82-5	PEL	500	2,000						29 CFR 1910.1000
US	n-heptane	142-82-5	TLV®	400		500					ACGIH® 2019

Notation	
Ceiling-C	ceiling value is a limit value above which exposure should not occur
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
heptane	142-82-5	DNEL	2,085 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
heptane	142-82-5	DNEL	300 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	blue
Particle	not relevant (liquid)
Odor	fruity

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	>65 °C at 1 atm
Flash point	<18 °C at 101 kPa closed cup
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	1.1 vol%
- Upper explosion limit (UEL)	7.5 vol%
Vapor pressure	6.1 kPa at 25 °C
Density	6.3 $^{lb}/_{gal}$
Vapor density	this information is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available

Auto-ignition temperature	204 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
Temperature class (USA, acc. to NEC 500)	T3 (maximum permissible surface temperature on the equipment: 200 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
heptane	142-82-5	LL50	5.7 $^{mg}/_{l}$	fish	96 h
heptane	142-82-5	EC50	1.5 $^{mg}/_{l}$	aquatic invertebrates	48 h
heptane	142-82-5	EL50	3.9 $^{mg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
heptane	142-82-5	EL50	1.6 $^{mg}/_{l}$	aquatic invertebrates	21 d
heptane	142-82-5	EC50	0.23 $^{mg}/_{l}$	aquatic invertebrates	21 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993

14.2 UN proper shipping name

DOT	Flammable liquid, n.o.s.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	heptane, d-limonene

14.3 Transport hazard class(es)

DOT	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

DOT	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment)	heptane

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1993, Flammable liquid, n.o.s., (contains: heptane, d-limonene), 3, II, environmentally hazardous
Danger label(s)	3, fish and tree



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	IB2, T7, TP1, TP8, TP28
ERG No	128

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (heptane)
Danger label(s)	3, fish and tree



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-E
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	3



Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
heptane	142-82-5		CDC 4th National Exposure Report
polydimethylsiloxane	63148-62-9	surface modifier	

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
heptane	142-82-5	A, N, O	
heptane		N	

Legend

A	American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
N	National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
O	Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
heptane	142-82-5		F3

Legend

F3	Flammable - Third Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
HEPTANE	142-82-5	

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
heptane	142-82-5	T, F

Legend

F	Flammability (NFPA®)
T	Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 74 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 74 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
US	TSCA	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed

Legend

DSL	Domestic Substances List (DSL)
REACH Reg.	REACH registered substances
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1.6	Other means of identification		yes
1.1.6	Product number: MVP197-01		yes
1.4	Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency telephone number.	Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency number	yes
2.1	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): Annex - Hazard class and category - Hazard statement code(s)	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)	yes
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.1	Remarks: For full text of H-phrases: see SECTION 16.		yes
2.1	Hazards not otherwise classified		yes
2.1		Hazards not otherwise classified: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2	Hazard statements		yes
2.2		- Pictograms: change in the listing (table)	yes
2.2	Precautionary statements		yes
2.2	Precautionary statements - prevention		yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2	Precautionary statements - response		yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Precautionary statements - storage		yes
2.2		Precautionary statements - storage: change in the listing (table)	yes
2.2	Precautionary statements - disposal		yes
2.2		Precautionary statements - disposal: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Hazardous ingredients for labelling: heptane, d-limonene	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Hazards not otherwise classified	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Hazards not otherwise classified: change in the listing (table)	yes
3.2	Description of the mixture: This product does not meet the criteria for classification in any hazard class according to GHS.	Description of the mixture	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Hazardous ingredients, Consideration of other advice: This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS. Exact percentage of ingredients is withheld as a trade secret.For full text of abbreviations: see SECTION 16.	yes
4.1	Following inhalation: In case of respiratory tract irritation, consult a physician. Provide fresh air.	Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.	yes
4.1	Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.	Following skin contact: Wash with plenty of soap and water.	yes
4.1	Following eye contact: Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.	Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.	yes
4.2		Most important symptoms and effects, both acute and delayed: Narcotic effects.	yes
4.3		Indication of any immediate medical attention and special treatment needed: none	yes
7.2	Incompatible substances or mixtures: Observe compatible storage of chemicals.		yes
7.2	Consideration of other advice		yes
7.2	Packaging compatibilities: Only packagings which are approved (e.g. acc. to DOT) may be used.	- Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.	yes
8.1	National limit values		yes
8.1	Occupational exposure limit values (Workplace Exposure Limits)		yes
8.1	Relevant DNELs/DMELs/PNECs and other threshold levels: No data available.		yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
9.1	Odor: fruity		yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.1		Particle: not relevant (liquid)	yes
9.1		Odor: fruity	yes
9.1	Flash point: <18 °C at 101.3 kPa (closed cup)	Flash point: <18 °C at 101 kPa closed cup	yes
9.1	Vapor pressure: 6.09 kPa at 25 °C	Vapor pressure: 6.1 kPa at 25 °C	yes
9.1	Density: 6.25 $^{lb}/_{gal}$	Density: 6.3 $^{lb}/_{gal}$	yes
9.1		Vapor density: this information is not available	yes
9.1	Oxidizing properties: noneThere is no additional information.	Oxidizing properties: none	yes
9.1		Temperature class (USA, acc. to NEC 500): T3 (maximum permissible surface temperature on the equipment: 200 °C)	yes
10.4	Physical stresses which might result in a hazardous situation and have to be avoided: strong shocks		yes
11.1	Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.		yes
11.1	Carcinogenicity		yes
11.1	• National Toxicology Program (United States): none of the ingredients are listed		yes
11.1	• IARC Monographs: none of the ingredients are listed		yes
11.1		Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.	yes
11.1		Carcinogenicity: Shall not be classified as carcinogenic.	yes
11.1		Reproductive toxicity: Shall not be classified as a reproductive toxicant.	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.2	Persistence and degradability	Persistence and degradability: Data are not available.	yes
12.6	Other adverse effects: Data are not available.	Endocrine disrupting properties: None of the ingredients are listed.	yes
13.1	Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	yes
14.1	UN number: 1993 not required	UN number	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.1		DOT: UN 1993	yes
14.1		IMDG-Code: UN 1993	yes
14.1		ICAO-TI: UN 1993	yes
14.2	UN proper shipping name: Flammable liquid, n.o.s.	UN proper shipping name	yes
14.2		DOT: Flammable liquid, n.o.s.	yes
14.2		IMDG-Code: FLAMMABLE LIQUID, N.O.S.	yes
14.2		ICAO-TI: Flammable liquid, n.o.s.	yes
14.2		Technical name (hazardous ingredients): heptane, d-limonene	yes
14.3		DOT: 3	yes
14.3		IMDG-Code: 3	yes
14.3		ICAO-TI: 3	yes
14.4	Packing group: II (substance presenting medium danger)	Packing group	yes
14.4		DOT: II	yes
14.4		IMDG-Code: II	yes
14.4		ICAO-TI: II	yes
14.5	Environmental hazards: hazardous to the aquatic environment (heptane)	Environmental hazards: hazardous to the aquatic environment	yes
14.5		Environmentally hazardous substance (aquatic environment): heptane	yes
14.7		Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information	yes
14.7		Particulars in the shipper's declaration: UN1993, Flammable liquid, n.o.s., (contains: heptane, d-limonene), 3, II, environmentally hazardous	yes
14.7		Danger label(s): 3, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7	• OSHA Carcinogens (United States): none of the ingredients are listed	Special provisions (SP): IB2, T7, TP1, TP8, TP28	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.1	Specific target organ toxicity (STOT)		yes
12.1	Aquatic toxicity (acute): Toxic to aquatic organisms.		yes
12.1	Aquatic toxicity (acute) of components of the mixture		yes
12.1	Aquatic toxicity (chronic)		yes
12.1	Aquatic toxicity (chronic) of components of the mixture		yes
12.2	Degradability of components of the mixture		yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3	Bioaccumulative potential of components of the mixture		yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
14.2	Technical name (hazardous constituents): heptane, d-limonene		yes
14.3	Class: 3 (flammable liquids)		yes
14.7	• Transport of dangerous goods by road or rail (49 CFR US DOT)		yes
14.7	Index number: 1993		yes
14.7	Proper shipping name: Flammable liquid, n.o.s.		yes
14.7	Class: 3		yes
14.7	Packing group: II		yes
14.7	Danger label(s): 3 + "fish and tree"		yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Environmental hazards: yes (hazardous to water)		yes
14.7	Special provisions (SP): IB2, T7, TP1, TP8, TP28		yes
14.7	ERG No: 128		yes
14.7	UN number: 1993		yes
14.7	Proper shipping name: FLAMMABLE LIQUID, N.O.S.		yes
14.7	Class: 3		yes
14.7	Packing group: II		yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	UN number: 1993		yes
14.7	Proper shipping name: Flammable liquid, n.o.s.		yes
14.7	Class: 3		yes
14.7	Packing group: II		yes
14.7		Danger label(s): change in the listing (table)	yes
15.1	National regulations (United States)		yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed		yes
15.1	Superfund Amendment and Reauthorization Act (SARA TITLE III)		yes
15.1	The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304): none of the ingredients are listed		yes
15.1	Specific Toxic Chemical Listings (EPCRA Section 313): none of the ingredients are listed		yes
15.1	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)		yes
15.1	List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): none of the ingredients are listed		yes
15.1	Proposition 65 List of chemicals: none of the ingredients are listed		yes
15.1	Clean Air Act: none of the ingredients are listed		yes
15.1	Right to Know Hazardous Substance List		yes
15.1	Cleaning Product Right to Know Act Substance List (CA-RTK)		yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1	Toxic or Hazardous Substance List (MA-TURA): none of the ingredients are listed		yes
15.1	Hazardous Substances List (MN-ERTK)		yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1	Hazardous Substance List (NJ-RTK)		yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1	Drug precursors, Controlled Substances Act (21 U.S.C. § 802): none of the ingredients are listed		yes
15.1	VOC content		yes
15.1	Regulated Volatile Organic Compounds (VOC-EPA): 73.66 %		yes
15.1	Industry or sector specific available guidance(s)		yes
15.1	NPCA-HMIS® III: Hazardous Materials Identification System (American Coatings Association)		yes
15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1	NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)		yes
15.1		NFPA® 704: change in the listing (table)	yes
15.1	Relevant European Union (EU) safety, health and environmental provisions		yes
15.1	Classification according to GHS (1272/2008/EC, CLP)		yes
15.1		Classification according to GHS (1272/2008/EC, CLP): change in the listing (table)	yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
14.7		ERG No: 128	yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (hazardous to the aquatic environment) (heptane)	yes
14.7	Environmental hazards: yes (hazardous to water)	Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Danger label(s): change in the listing (table)	yes
15.1		National regulations (United States)	yes
15.1		Toxic Substance Control Act (TSCA): all ingredients are listed	yes
15.1		Superfund Amendment and Reauthorization Act (SARA TITLE III)	yes
15.1		The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304): none of the ingredients are listed	yes
15.1		Specific Toxic Chemical Listings (EPCRA Section 313): none of the ingredients are listed	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)	yes
15.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): none of the ingredients are listed	yes
15.1		Clean Air Act: none of the ingredients are listed	yes
15.1		Right to Know Hazardous Substance List	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK)	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA): none of the ingredients are listed	yes
15.1		Hazardous Substances List (MN-ERTK)	yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1	Regulated Volatile Organic Compounds (VOC-CalARB): 73.66 %	Hazardous Substance List (Chapter 323) (PA-RTK)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987: none of the ingredients are listed	yes
15.1		VOC content	yes
15.1		Regulated Volatile Organic Compounds (VOC-EPA): 74 %	yes
15.1		Regulated Volatile Organic Compounds (VOC-CalARB): 74 %	yes
15.1		Industry or sector specific available guidance(s)	yes
15.1		NPCA-HMIS® III: Hazardous Materials Identification System. American Coatings Association.	yes
15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1		NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		NFPA® 704: change in the listing (table)	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes
15.2		Chemical Safety Assessment: Chemical safety assessments for substances in this mixture were not carried out.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: - OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 - 49 CFR § 172.101 Hazardous Materials Table (DOT)	Key literature references and sources for data: OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Asp. Tox.	Aspiration hazard
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
EmS	Emergency Schedule
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ERG No	Emergency Response Guidebook - Number
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association

Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.