

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 03.10.2019 Revision date: 26.06.2023 Version: 3.0

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

1.1. Product identifier

Product form : Substance
Trade name : LEATHER CLEANER
Chemical name : Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]
EC-No. : 951-169-0
REACH registration No : 01-2120822880-56-0000

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Leather cleaner.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name: Unlimited
Street: Dorpssingel 6
Postal code/City: 6641BE Beuningen
Country: Netherlands

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
Czech Republic	Toxicological Information Centre Clinic of occupational disease	Na Bojišti 1, 128 08 Prague 2	Non-stop service: +420 224 919 293 or +420 224 915 402	www.tis-cz.cz ; tis@vfn.cz

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225
Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes severe skin burns and eye damage.

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective gloves.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 - IF exposed or concerned: Call doctor.

P501 - Dispose of contents/container as hazardous waste.

2.3. Other hazards

Other hazards which do not result in classification :

The substance is not identified as persistent, bio-accumulative and toxic (PBT) or very persistent, very bio-accumulative (vPvB) under Annex XIII of Regulation 1907/2006/EC. The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type :

Multi-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]	EC-No.: 951-169-0 REACH-no: 01-2120822880-56-0000	100	Flam. Liq. 2, H225 Skin Corr. 1, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :

If you feel unwell, seek medical advice (show the label where possible). In all cases keep the victim at physical and mental rest and warm. Unconscious person never give anything. In all serious cases of eye contact, and when swallowed, seek medical advice.

First-aid measures after inhalation :

Remove person to fresh air and keep them warm and calm. Give oxygen or artificial respiration if necessary. Consult a doctor/medical service if you feel unwell.

First-aid measures after skin contact :

Gently wash with plenty of soap and water. If irritation persists, consult a doctor.

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

First-aid measures after eye contact	: Rinse cautiously with water for several minutes from the inner corner of the eye to the outside to avoid hitting the other eye. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth. Get medical advice/attention.

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

Symptoms/effects	: Inhalation or ingestion of the product may cause face reddening, pulsing headaches, high tachycardia, weakness, confusion, restlessness, dizziness and collapse.
Symptoms/effects after skin contact	: Causes severe skin burns.
Symptoms/effects after eye contact	: Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No special means are stated.

If any health troubles appear or in case of doubt, please inform the doctor and provide the information from this safety sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam, powder, CO ₂ .
Unsuitable extinguishing media	: Water.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Do not breathe fumes from fires or vapours from decomposition.
-------------	--

5.3. Advice for firefighters

Firefighting instructions	: During the fire of the product, keep the safe distance, use suitable breathing protection (isolation device), or self-contained breathing apparatus.
---------------------------	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not breathe vapours. Avoid contact with skin and eyes. Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas.
------------------	--

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow the mixture to enter into sewer, water system (underground water, surface water) or soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
-------------------------	---

6.4. Reference to other sections

See Section 8 and 13 of this safety data sheet.

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe vapours. Avoid contact with skin and eyes. Do not wear contact lenses. Use personal protective equipment as required. Ensure adequate air ventilation.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Store under constant temperature 24/7 lower than 20°C. Keep container tightly closed. A first aid kit with appropriate content must be available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield.

8.2.2.2. Skin protection

Hand protection:

Protective gloves. Follow the glove manufacturer's specific recommendations when selecting the appropriate thickness, material, and permeability.

Other skin protection

Materials for protective clothing:

Antistatic clothing.

8.2.2.3. Respiratory protection

Respiratory protection:

Approved organic vapour respirator.

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to yellowish.
Odour	: Fruity.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -22,6 °C
Boiling point	: 104 – 105 °C
Flammability	: the product is liquid
Explosion limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 21 °C
Auto-ignition temperature	: 209 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water. Water: 3,97 g/l Ethanol: Readily miscible with 95% ethanol.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 2,85
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0,86 g/cm ³ (20 °C)
Relative density	: 0,88 (20 °C)
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes upon contact with air, light or water.

10.2. Chemical stability

No additional information available

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. alcohols.

10.6. Hazardous decomposition products

Nitric acid is formed upon contact with water or air moisture, toxic nitrogen oxides are formed in combustion.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Based on available data, the classification criteria are not met.
Acute toxicity (dermal)	: Based on available data, the classification criteria are not met.
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Based on available data, the classification criteria are not met.
Hazardous to the aquatic environment, long-term (chronic)	: Based on available data, the classification criteria are not met.

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite]

EC50 72h - Algae [1]	1 mg/l
----------------------	--------

12.2. Persistence and degradability

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite]

Biodegradation	The substance is very volatile and evaporates rapidly into the air in contact with water. Rapidly biodegradable substance.
----------------	--

12.3. Bioaccumulative potential

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite]

Partition coefficient n-octanol/water (Log Pow)	2,85
---	------

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.4. Mobility in soil

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite]

Surface tension 0,02 mN/m

12.5. Results of PBT and vPvB assessment

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite]

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in accordance with corresponding regulations. Disposal may be performed only by the authorized person.

Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

European List of Waste (LoW) code : 16 05 08* - discarded organic chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 2924	UN 2924	UN 2924	UN 2924	UN 2924
14.2. UN proper shipping name				
FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	Flammable liquid, corrosive, n.o.s.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Transport document description (ADR)				
UN 2924 Flammable liquid, corrosive, n.o.s. (Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]), 3 (8), II
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : FC
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2
Hazard identification number (Kemler No.) : 338
Orange plates :



Tunnel restriction code (ADR) : D/E

Transport by sea

EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-C
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

Air transport

PCA packing instructions (IATA) : 352
CAO packing instructions (IATA) : 363

Inland waterway transport

Classification code (ADN) : FC

Rail transport

Classification code (RID) : FC
Limited quantities (RID) : 1L
Hazard identification number (RID) : 338

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite] is not on the REACH Candidate List

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite] is not on the REACH Annex XIV List

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite] is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Reactions mass of [1-pentanol, 2-methyl-1-butanol, 2-methylbutyl nitrite, pentyl nitrite] is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.1.2. National regulations

No data available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1-16	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified	28.04.2021

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA guidance on the compilation of safety data sheets
ECHA C&L Inventory database.
Information from the manufacturer.

Other information : Due to the specific conditions of sale (the goods are sold in specialty stores), it is unlikely that these goods could be sold to children. The closure and packaging is so sufficiently safe to meet the conditions mentioned in Annex II, part 3, Chapter 3.1.4.2 (special cases) of Regulation (EC) No. 1272/2008 (CLP):

"If it seems obvious that packaging is sufficiently safe for children because they cannot get access to the contents without the help of a tool, the test referred to in section 3.1.2 or 3.1.3 does not need to be performed".

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Reactions mass of [2-methylbutyl nitrite, 2-methyl-1-butanol, 1-pentanol, pentyl nitrite]

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.