



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 21-May-2024

Version 7

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

1.1. Product identifier

Product Code 80073
Product Name PX 120DA BELT DRESSING 12 OZ.

Unique Formula Identifier (UFI) Code KXWH-C0UN-600F-5XW4
Other means of identification

Contains N-HEXANE, NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, CYCLOHEXANE, BUTANE

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

Recommended Use Aerosol Lubricant
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	Only Representative (OR)
ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	ITW Permatex, Inc. Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 customerservice.shannon@itwpp.com

For further information, please contact

Contact Point ITW Permatex
6875 Parkland Blvd.
Solon, Ohio 44139 USA
Telephone: 1-87-Permatex
(866) 732-9502

E-mail address: mail@permatex.com

Non-Emergency Telephone Number 866-732-9502

1.4. Emergency telephone number

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	112
Austria	01 406 43 43
Belgium	070 245 245
Denmark	+ 45 8212 1212
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59

Germany	+49 228 192 40
Ireland	01 809 2166
Italy	0382-24444
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Estonia	16662/ (+372) 7943 794
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Romania	+40213183606
Slovakia	+421 2 5477 4166
Malta	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aerosols	Category 2 - (H223) (H229)
Gases under pressure	Liquefied gas - (H280)
Reproductive toxicity	Category 2 - (H361)
Aspiration hazard	Category 2 - (H305)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains N-HEXANE, NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, CYCLOHEXANE, BUTANE



Signal word

Danger

Hazard statements

H223 - Flammable aerosol

H229 - Pressurized container: May burst if heated

H280 - Contains gas under pressure; may explode if heated

H361f - Suspected of damaging fertility

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P211 - Do not spray on an open flame or other ignition source
 P251 - Pressurized container: Do not pierce or burn, even after use
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P331 - Do NOT induce vomiting
 P370 + P378 - In case of fire: Use .? to extinguish
 P405 - Store locked up
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

2.3. Other hazards

No information available.

Endocrine Disruptor Information

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration No.	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
N-HEXANE 110-54-3	5 - <10%		(601-037-00-0) 203-777-6	Skin Irrit. 2 (H315) Repr. 2 (H361f) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	STOT RE 2 :: C>=5%	-	-
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	5 - <10%		(649-328-00-1) 265-151-9	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	-	-	-
BUTANE 106-97-8	5 - <10%		(601-004-00-0) (601-004-01-8) 203-448-7	Carc. 1A (H350) Muta. 1B (H340) Flam. Gas 1 (H220) Press. Gas	-	-	-
PROPANE 74-98-6	1 - <2.5%		(601-003-00-5) 200-827-9	Flam. Gas 1 (H220)	-	-	-

SODIUM NITRITE 7632-00-0	0.5 - <1%		(007-010-00-4) 231-555-9	Press. Gas Acute Tox. 3 (H301) Aquatic Acute 1 (H400) Ox. Sol. 3 (H272)	-	-	-
CYCLOHEXANE 110-82-7	0.5 - <1%		(601-017-00-1) 203-806-2	Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225)	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
N-HEXANE 110-54-3	25000	3000	No data available	169.1681	No data available
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	5000	3160	No data available	No data available	No data available
BUTANE 106-97-8	No data available	No data available	No data available	No data available	276808.3276
PROPANE 74-98-6	No data available	No data available	No data available	No data available	200000
SODIUM NITRITE 7632-00-0	85	No data available	5.5	No data available	No data available
CYCLOHEXANE 110-82-7	12705	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion	Rinse mouth.
Self-protection of the first aider	See section 8 for more information.

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

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Effects of Exposure	No information available.
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Small Fire	In case of fire, use water spray, foam, dry chemical, or CO ₂ .
Large Fire	In case of fire, use water spray, foam, dry chemical, or CO ₂ .
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Packaging materials No information available.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other Information

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL 80 ppm STEL 288 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72.0 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ *
BUTANE 106-97-8	-	TWA: 800 ppm TWA: 1900 mg/m ³ STEL 1600 ppm STEL 3800 mg/m ³	TWA: 1000 ppm STEL: 980 ppm STEL: 2370 mg/m ³	TWA: 1900 mg/m ³	TWA: 600 ppm TWA: 1450 mg/m ³ TWA: 10 ppm TWA: 22 mg/m ³ STEL: 750 ppm STEL: 1810 mg/m ³
PROPANE 74-98-6	-	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL 2000 ppm STEL 3600 mg/m ³	TWA: 1000 ppm	TWA: 1800.0 mg/m ³	-
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL 800 ppm STEL 2800 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³	TWA: 200 ppm TWA: 700.0 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 70 mg/m ³ Ceiling: 200 mg/m ³ D*	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 144 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ TWA: 5 mg/m ³ STEL: 500 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ iho*
NAPHTHA (PETROLEUM),	-	-	-	TWA: 5 mg/m ³ STEL: 500 mg/m ³	-

HYDROTREATED LIGHT 64742-49-0					
BUTANE 106-97-8	-	-	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 1000 ppm STEL: 2400 mg/m ³	TWA: 800 ppm TWA: 1500 mg/m ³ TWA: 5 mg/m ³ STEL: 500 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³ STEL: 1000 ppm STEL: 2400 mg/m ³
PROPANE 74-98-6	-	-	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 2000 ppm STEL: 3600 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³	TWA: 800 ppm TWA: 1500 mg/m ³ STEL: 1100 ppm STEL: 2000 mg/m ³
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 700 mg/m ³ Ceiling: 2000 mg/m ³	TWA: 50 ppm TWA: 172 mg/m ³ STEL: 100 ppm STEL: 344 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 875 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Peak: 400 ppm Peak: 1440 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 72 mg/m ³ TWA: 20 ppm b*
BUTANE 106-97-8	TWA: 800 ppm TWA: 1900 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³ Peak: 4000 ppm Peak: 9600 mg/m ³	TWA: 1000 ppm TWA: 2350 mg/m ³	TWA: 2350 mg/m ³ STEL: 9400 mg/m ³
PROPANE 74-98-6	-	TWA: 1000 ppm TWA: 1800 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³ Peak: 4000 ppm Peak: 7200 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³	-
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³ TWA: 1000 mg/m ³ STEL: 375 ppm STEL: 1300 mg/m ³ STEL: 1500 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ Peak: 800 ppm Peak: 2800 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 60 ppm STEL: 216 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 50 ppm TWA: 176 mg/m ³ cute*	TWA: 20 ppm TWA: 72 mg/m ³ TWA: 100 mg/m ³ STEL: 300 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³
BUTANE 106-97-8	TWA: 1000 ppm STEL: 3000 ppm	-	STEL: 1000 ppm STEL: 2377 mg/m ³	TWA: 300 mg/m ³ TWA: 100 mg/m ³ STEL: 300 mg/m ³	-
PROPANE 74-98-6	STEL: 3000 ppm Simple asphyxiant	-	: Simple asphyxiant	TWA: 1000 ppm TWA: 1800 mg/m ³ TWA: 100 mg/m ³ STEL: 300 mg/m ³	-
SODIUM NITRITE 7632-00-0	-	-	-	-	Ceiling: 0.1 mg/m ³
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 600 ppm STEL: 2100 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³	TWA: 100 ppm TWA: 344 mg/m ³	TWA: 23 ppm TWA: 80 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 144 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 30 ppm STEL: 108 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	TWA: 72 mg/m ³ skóra*

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	-	-	-	-	STEL: 1500 mg/m ³ TWA: 500 mg/m ³
BUTANE 106-97-8	-	-	-	TWA: 250 ppm TWA: 600 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 312.5 ppm STEL: 750 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	STEL: 3000 mg/m ³ TWA: 1900 mg/m ³
PROPANE 74-98-6	-	-	-	TWA: 500 ppm TWA: 900 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 625 ppm STEL: 1125 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	TWA: 1800 mg/m ³
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 400 ppm STEL: 1400 mg/m ³	TWA: 150 ppm TWA: 525 mg/m ³ STEL: 187.5 ppm STEL: 656.25 mg/m ³	STEL: 1000 mg/m ³ TWA: 300 mg/m ³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
N-HEXANE 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ Cutânea*	TWA: 20 ppm TWA: 72 mg/m ³ TWA: 700 mg/m ³ STEL: 1000 mg/m ³	TWA: 20 mg/m ³ TWA: 72 mg/m ³ Ceiling: 140 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 576 mg/m ³ STEL: 160 ppm	TWA: 20 ppm TWA: 72 mg/m ³
BUTANE 106-97-8	TWA: 1000 ppm STEL: 1000 ppm	TWA: 700 mg/m ³ STEL: 1000 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³ STEL: 5000 ppm STEL: 12000 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³ STEL: 4000 ppm STEL: 9600 mg/m ³	TWA: 1000 ppm
PROPANE 74-98-6	TWA: 1000 ppm	TWA: 778 ppm TWA: 1400 mg/m ³ TWA: 700 mg/m ³ STEL: 1000 ppm STEL: 1800 mg/m ³ STEL: 1000 mg/m ³	-	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 4000 ppm STEL: 7200 mg/m ³	TWA: 1000 ppm
CYCLOHEXANE 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 2800 mg/m ³ STEL: 800 ppm	TWA: 200 ppm TWA: 700 mg/m ³
Chemical name	Sweden		Switzerland	United Kingdom	
N-HEXANE 110-54-3	NGV: 20 ppm NGV: 72 mg/m ³ NGV: 350 mg/m ³ Bindande KGV: 50 ppm Bindande KGV: 180 mg/m ³		TWA: 50 ppm TWA: 180 mg/m ³ STEL: 400 ppm STEL: 1440 mg/m ³ H*	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 60 ppm STEL: 216 mg/m ³	
BUTANE 106-97-8	NGV: 350 mg/m ³		TWA: 800 ppm TWA: 1900 mg/m ³ STEL: 3200 ppm STEL: 7600 mg/m ³	TWA: 600 ppm TWA: 1450 mg/m ³ STEL: 750 ppm STEL: 1810 mg/m ³	
PROPANE 74-98-6	NGV: 350 mg/m ³		TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 4000 ppm STEL: 7200 mg/m ³	-	
CYCLOHEXANE 110-82-7	NGV: 200 ppm NGV: 700 mg/m ³		TWA: 200 ppm TWA: 700 mg/m ³ STEL: 800 ppm STEL: 2800 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1050 mg/m ³	

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
N-HEXANE 110-54-3	-	-	-	150 µg/L - blood (n-Hexane) - during exposure 40 ppm - final exhaled air (n-Hexane) - during exposure 0.20 mg/g Creatinine - urine (2-Hexanol) - at the end of the work shift 5.30 mg/g Creatinine - urine (2,5-Hexanedione) - at the end of the work shift	-
CYCLOHEXANE 110-82-7	-	-	-	150 mg/g Creatinine - urine (1,2-Cyclohexanediol) - at the end of the work shift; at chronic exposure after several successive shifts 450 µg/L - blood (Cyclohexanol) - during exposure 3.20 mg/g Creatinine - urine (Cyclohexanol) - during the second half of the work shift	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
N-HEXANE 110-54-3	-	-	- urine (2,5-Hexanedione) - end of shift	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) end of shift) 5 mg/L - BAT (end of exposure or end of shift) urine 5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine	5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) end of shift)
CYCLOHEXANE 110-82-7	-	-	-	150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) end of shift 150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) for	150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) end of shift 150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) for

Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
N-HEXANE 110-54-3	2 mg/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift) 18 µmol/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift)	0.4 mg/L (urine - 2,5-Hexanedione end of shift at end of workweek)	-	0.5 mg/L - urine (2,5-Hexanedione (without hydrolysis)) - end of shift at end of workweek
Chemical name	Latvia	Luxembourg	Romania	Slovakia
N-HEXANE 110-54-3	-	-	5 mg/g Creatinine - urine (2,5-Hexandion) - end of shift	5 mg/L (urine - 2,5-Hexanedione end of exposure or work shift) 5 mg/L (urine - 4,5-Dihydroxy-2-hexanone end of exposure or work shift)
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
N-HEXANE 110-54-3	5 mg/L - urine (2,5-Hexandione and 4,5-Dihydroxy-2-hexanone (after hydrolysis)) - at the end of the work shift	0.2 mg/L (urine - 2,5-Hexanedione end of workweek)	5 mg/L (urine - 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone end of shift)	-
CYCLOHEXANE 110-82-7	150 mg/g Creatinine - urine (1,2-Cyclohexanediol (after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	-	150 mg/g creatinine (urine - total 1,2-Cyclohexanediol end of shift, and after several shifts (for long-term exposures)) 146 µmol/mmol creatinine (urine - total 1,2-Cyclohexanediol end of shift, and after several shifts (for long-term exposures))	-

8.2. Exposure controls

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
N-HEXANE 110-54-3	-	11 mg/kg bw/day [4] [6]	75 mg/m ³ [4] [6]
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	-	-	1286.4 mg/m ³ [4] [7] 837.5 mg/m ³ [5] [6] 1066.67 mg/m ³ [5] [7]
CYCLOHEXANE 110-82-7	-	2016 mg/kg bw/day [4] [6]	700 mg/m ³ [4] [6] 1400 mg/m ³ [4] [7] 700 mg/m ³ [5] [6] 1400 mg/m ³ [5] [7]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
N-HEXANE 110-54-3	4 mg/kg bw/day [4] [6]	-	16 mg/m ³ [4] [6]
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	-	-	1152 mg/m ³ [4] [7] 178.57 mg/m ³ [5] [6] 640 mg/m ³ [5] [7]
CYCLOHEXANE 110-82-7	59.4 mg/kg bw/day [4] [6]	-	206 mg/m ³ [4] [6] 412 mg/m ³ [4] [7] 206 mg/m ³ [5] [6] 412 mg/m ³ [5] [7]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
CYCLOHEXANE 110-82-7	0.207 mg/L	0.207 mg/L	0.207 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CYCLOHEXANE 110-82-7	16.68 mg/kg sediment dw	16.68 mg/kg sediment dw	3.24 mg/L	3.38 mg/kg soil dw	-

Personal protective equipment

Eye/face protection

No special protective equipment required.

Skin and body protection

No special protective equipment required.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Thermal hazards

No information available.

Other protective equipment

No information available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid Aerosol
Appearance	White
Color	Solvent
Odor	Solvent
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point / boiling range	100 °C	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	< -20 °C	(based on components)
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available Soluble in water	
	None known	
Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	35 psig @ 70°F	
Relative density	0.97	
Bulk density	자료 없음	
Density	No data available	
Vapor density	No data available	Air = 1
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
None known		

9.2. Other information

Formula No information available

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available < 1 Butyl acetate = 1

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization No information available.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	13,659.00 mg/kg
ATEmix (dermal)	25,661.80 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N-HEXANE	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h
BUTANE	-	-	= 658 g/m ³ (Rat) 4 h
PROPANE	-	-	> 800000 ppm (Rat) 15 min
SODIUM NITRITE	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h
CYCLOHEXANE	= 12705 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 32880 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Chemical name	European Union
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	Muta. 1B
BUTANE	Muta. 1B

Carcinogenicity No information available.

Chemical name	European Union
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	Carc. 1B
BUTANE	Carc. 1A

Reproductive toxicity No information available.

Chemical name	European Union
N-HEXANE	Repr. 2

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-HEXANE	-	LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)	-	-
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	-	LC50: =8.41mg/L (96h, Oncorhynchus mykiss)	-	-
SODIUM NITRITE	-	LC50: =0.19mg/L (96h, Oncorhynchus mykiss) LC50: 0.092 - 0.13mg/L (96h, Oncorhynchus mykiss) LC50: 0.4 - 0.6mg/L (96h, Oncorhynchus mykiss) LC50: 0.65 - 1mg/L (96h,	-	-

		Oncorhynchus mykiss) LC50: =2.3mg/L (96h, Pimephales promelas) LC50: =20mg/L (96h, Pimephales promelas)		
CYCLOHEXANE	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
N-HEXANE	4
BUTANE	2.31
PROPANE	1.09
SODIUM NITRITE	-3.7
CYCLOHEXANE	3.93

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
N-HEXANE	The substance is not PBT / vPvB
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	The substance is not PBT / vPvB
BUTANE	The substance is not PBT / vPvB
PROPANE	The substance is not PBT / vPvB
SODIUM NITRITE	The substance is not PBT / vPvB
CYCLOHEXANE	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number ID 8000
 14.2 Proper shipping name Consumer commodity
 14.3 Transport hazard class(es) 9
 14.4 Packing group Not regulated
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user

IMDG

14.1 UN number or ID number 1950
 14.2 Proper shipping name Aerosols Limited Quantity (LQ)
 14.3 Transport hazard class(es) 2.1
 14.4 Packing Group Not regulated
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user
 14.7 Maritime transport in bulk according to IMO instruments

RID

14.1 UN/ID No 1950
 14.2 Proper shipping name Aerosols Limited Quantity (LQ)
 14.3 Transport hazard class(es) 2.1
 14.4 Packing Group Not regulated
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user

ADR

14.1 UN number or ID number 1950
 14.2 Proper shipping name Aerosols Limited Quantity (LQ)
 14.3 Transport hazard class(es) 2.1
 14.4 Packing Group Not regulated
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user
 Classification code 5F

SECTION 15: Regulatory information

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

Chemical name	French RG number
N-HEXANE - 110-54-3	RG 59, RG 84
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT - 64742-49-0	RG 84
CYCLOHEXANE - 110-82-7	RG 84

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
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Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
N-HEXANE	-	-	Fertility Category 2

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
N-HEXANE - 110-54-3	75.	-
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT - 64742-49-0	28. 29. 75.	-
BUTANE - 106-97-8	28. 29. 75.	-
CYCLOHEXANE - 110-82-7	57. 75.	-

Persistent Organic Pollutants

Not applicable

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT - 64742-49-0	-	25000

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend:

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H220 - Extremely flammable gas
 H225 - Highly flammable liquid and vapor
 H272 - May intensify fire; oxidizer
 H301 - Toxic if swallowed
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H336 - May cause drowsiness or dizziness
 H340 - May cause genetic defects
 H350 - May cause cancer
 H361f - Suspected of damaging fertility
 H373 - May cause damage to organs through prolonged or repeated exposure
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision Date 21-May-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet

EU SDS version information - EGHS

UL release:
GHS Revision 7
2023 Q1

Full text of H-Statements referred to under section 3 H220 - Extremely flammable gas H225 - Highly flammable liquid and vapor H272 - May intensify fire; oxidizer H301 - Toxic if swallowed H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H340 - May cause genetic defects H350 - May cause cancer H361f - Suspected of damaging fertility H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic to aquatic life with long lasting effects

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
N-HEXANE	Skin Irrit. 2 (H315) Repr. 2 (H361f) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	STOT RE 2 :: C>=5%
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	
BUTANE	Carc. 1A (H350) Muta. 1B (H340) Flam. Gas 1 (H220) Press. Gas	
PROPANE	Flam. Gas 1 (H220) Press. Gas	
SODIUM NITRITE	Acute Tox. 3 (H301) Aquatic Acute 1 (H400) Ox. Sol. 3 (H272)	
CYCLOHEXANE	Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225)	

Chemical name	CAS No.	French RG number
N-HEXANE	110-54-3	RG 59, RG 84
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	64742-49-0	RG 84
CYCLOHEXANE	110-82-7	RG 84

VOC content