

1. Identification

Product identifier

Trade name: 85F3 - Parting Agent

This product contains microplastics.

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

General use: Parting agent for orthopedic procedures

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care

Street/POB-No.: 3820 W. Great Lakes Drive

Zip code, city: Salt Lake City, UT 84120

USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,

Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),

Email: USRegulatory@ottobock.com

Additional information:

Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency telephone number

CHEMTREC, Telephone: +1 (800) 424-9300

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazard identification

Classification of the substance or mixture

Flammable Liquid - Category 2

Skin Irritation - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3

Aspiration Toxicity - Category 1

Aquatic toxicity - acute - Category 2

Aquatic toxicity - chronic - Category 2

Highly flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Label elements

Symbols:



Signal word:

Danger

Hazard statements:

- Highly flammable liquid and vapor.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause drowsiness or dizziness.
- Toxic to aquatic life.
- Toxic to aquatic life with long lasting effects.

Precautionary statements:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash hands and face thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- IF ON SKIN: Wash with plenty of water/soap.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- Specific treatment (see ' First aid ' on this label).
- Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use dry powder, foam or water spray for extinction.
- Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container to hazardous or special waste collection point.

Other hazards

Special danger of slipping by leaking/spilling product. Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane.

3. Composition/information on ingredients

Mixtures

Chemical characterization: Solution of wax

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64742-49-0	Naphtha (petroleum), hydrotreated light	70 - 90 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 108-87-2	Methylcyclohexane	2.5 - 10 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 1 (M-factor = 1). Aquatic toxicity - chronic - Category 1 (M-factor = 1).
CAS 111-65-9	Octane	2.5 - 10 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 110-82-7	Cyclohexane	2.5 - 10 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 1 (M-factor = 1). Aquatic toxicity - chronic - Category 1 (M-factor = 1).
CAS 107-83-5	Hexane, mixture of isomers (containing < 5 % n-hexane (110-54-3))	2.5 - 10 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.

The actual concentration or concentration range is withheld as a trade secret.

Additional information: Contains 5 - 10% synthetic polymer microparticles.

4. First aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention if problems persist.
Following skin contact:	After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Information to physician

Treat symptomatically. Subsequent observance for pneumonia and lung oedema.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors may proceed on the ground over great distances and cause fire and backflashes. In case of insufficient ventilation and/or when used, may form explosive/highly flammable vapor-air mixture.

May form dangerous gases and vapors in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Use fine water spray to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so.

If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. In case of release, notify competent authorities. Danger of explosion!

Methods and material for containment and cleaning up

- Methods for clean-up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Never return spills in original containers for re-use.
- Additional information: Special danger of slipping by leaking/spilling product. This product contains microplastics.

7. Handling and storage

Precautions for safe handling

- Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment.
Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.
- Precautions against fire and explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge.
Use only explosion-protected equipment/instruments. In partially filled containers explosive mixtures may form.

Conditions for safe storage, including any incompatibilities

- Requirements for storerooms and containers: Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in original container.
Protect from direct sunlight. Store containers in upright position.
Storage temperature: 35.6 - 104 °F
Only approved packaging (e.g. in accordance with DOT) may be used.
- Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store together with: Oxidizing agents.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
108-87-2	Methylcyclohexane	USA: ACGIH: TWA	100 ppm
		USA: IDLH: TWA	1,200 ppm [10% LEL]
		USA: NIOSH: TWA	1,600 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	2,000 mg/m ³ ; 500 ppm
111-65-9	Octane	USA: ACGIH: TWA	1,401 mg/m ³ ; 300 ppm
		USA: IDLH: TWA	1,000 ppm [10% LEL]
		USA: NIOSH: Ceiling	1,800 mg/m ³ ; 385 ppm
		USA: NIOSH: TWA	350 mg/m ³ ; 75 ppm
		USA: OSHA: TWA	2,350 mg/m ³ ; 500 ppm
110-82-7	Cyclohexane	USA: ACGIH: TWA	344 mg/m ³ ; 100 ppm
		USA: IDLH: TWA	1,300 ppm [10% LEL]
		USA: NIOSH: TWA	1,050 mg/m ³ ; 300 ppm
		USA: OSHA: TWA	1,050 mg/m ³ ; 300 ppm
107-83-5	Hexane, mixture of isomers (containing < 5 % n-hexane (110-54-3))	USA: ACGIH: TWA	200 ppm
		USA: NIOSH: Ceiling	1,800 mg/m ³ ; 510 ppm
		USA: NIOSH: TWA	350 mg/m ³ ; 100 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
110-82-7	Cyclohexane	USA: ACGIH-BE1, urine	50 mg/g creatinine	1,2-Cyclohexanediol	end of shift at end of work week

Appropriate engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment (PPE)

Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection. Recommendation: Use filter type A (= against vapors of organic substances). The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138 Glove material: ethylene vinyl alcohol laminate (EVAL), butyl caoutchouc (butyl rubber) Breakthrough time: > 480 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.

General hygiene considerations:

Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 68 °F and 101.3 kPa	liquid
Color:	Form: emulsion colorless
Odor:	like solvent
Odor threshold:	No data available
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	183.2 °F
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 0.60 Vol-% UEL (Upper Explosive Limit): 7.70 Vol-%
Flash point/flash point range:	15.8 °F (c.c.)
Evaporation rate:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Dynamic viscosity:	30 mPa*s (ISO 3219)
Viscosity, kinematic:	at 104 °F: 7 - 20 mm²/s
Water solubility:	at 68 °F: Practically insoluble
Partition coefficient: n-octanol/water:	3.88 log K(o/w) (Methylcyclohexane) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 5.15 log K(o/w) (Octane) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. at 68 °F: 1.99 - 18.02 log K(o/w) (Naphtha (petroleum), hydrotreated light) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. at 77 °F: 3.44 log K(o/w) (cyclohexane) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapor pressure:	at 68 °F: 75 hPa at 122 °F: 290 hPa
Density:	at 68 °F: 0.71 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Vapors may form explosive mixtures with air.
Oxidizing characteristics:	Not oxidising
Ignition temperature:	482 °F
Additional information:	Flow time: 26 s (4 mm, DIN 53211)

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Vapors may form explosive mixtures with air. Heating will lead to pressure increase: danger of bursting and explosion.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from direct sunlight.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11. Toxicological information

Information on toxicological effects

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>ATEmix (calculated): > 5,000 mg/kg</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Lack of data.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Lack of data.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.</p> <p>Specific target organ toxicity (repeated exposure): Lack of data.</p> <p>Aspiration hazard: Aspiration Toxicity - Category 1 = May be fatal if swallowed and enters airways.</p>
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Other information:

Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):

LD50 Rat, oral: > 5,000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2,000 mg/kg (OECD 402), no mortality occurred

LC50 Rat, inhalative (vapor) : > 5.61 mg/L/4h (OECD 403), maximum achievable concentration, no mortality occurred

Information about Methylcyclohexane (CAS 108-87-2):

LD50 Rat, oral: 4,000 - 4,500 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2,000 mg/kg (OECD 402), no mortality occurred

LC50 Rat, inhalative (vapor) : > 28.8 mg/L/4h (OECD 403)

Information about Hexane, mixture of isomers (containing < 5 % n-hexane (110-54-3)) (CAS 107-83-5):

LD50 Rat, oral: > 2,000 mg/kg

Symptoms

May cause headache and dizziness.

In case of inhalation: Higher doses may lead to a narcotic effect.

In case of ingestion:

May cause nausea, vomiting and diarrhoea. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.

After contact with skin:

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

After eye contact: Eye contact may cause irritation, redness, tearing or blurry vision.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): 8.2 mg/L/96h (EPA 66013-75-009)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 4.5 mg/L/48h (OECD 202)

NOEL Daphnia magna (Big water flea): 2.6 mg/L/21d (OECD 211)

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): 3.1 mg/L/72h (OECD 201)

NOEL Pseudokirchneriella subcapitata (green algae): 05 mg/L/72h (OECD 201)

Information about Methylcyclohexane (CAS 108-87-2):

Fish toxicity:

LC50 Oryzias latipes (Ricefish): 2.07 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.326 mg/L/48h (OECD 202)

Algae toxicity:

ErC50 Pseudokirchneriella subcapitata (green algae): 0.134 mg/L/72h (OECD 201)

NOEC Pseudokirchneriella subcapitata (green algae): 0.022 mg/L/72h (OECD 201)

Information about Octane (CAS 111-65-9):

Fish toxicity:

LL50 Oncorhynchus mykiss: 3 - 10 mg/L/96h (OECD 203)

EL10 Oncorhynchus mykiss: 0.49 mg/L/60d (data obtained by analogy conclusion, e.g. (Q)SAR)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 0.4 mg/L/48h

NOEC Daphnia magna (Big water flea): 0.17 mg/L/21d (OECD 211)

Algae toxicity:

ErL50 Pseudokirchneriella subcapitata (green algae): 29 mg/L/72h (OECD 201)

NOELR Pseudokirchneriella subcapitata (green algae): 6.3 mg/L/72h (OECD 201)

Information about Cyclohexane (CAS 110-82-7):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 4.53 mg/L/96h (OECD 203)

NOEC Oncorhynchus mykiss: 0.447 mg/L/21d (data obtained by analogy conclusion, e.g. (Q)SAR)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.9 mg/L/48h (OECD 202)

NOEC Daphnia magna (Big water flea): 0.83 mg/L/21d (data obtained by analogy conclusion, e.g. (Q)SAR)

Algae toxicity:

ErC50 Pseudokirchneriella subcapitata (green algae): > 4.425 mg/L/72h (OECD 201)

NOEC Pseudokirchneriella subcapitata (green algae): 0.925 mg/L/72h (OECD 201)

Effects in sewage plants: Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):
 EL50 Tetrahymena pyriformis: 15.41 mg/L/40h (data obtained by analogy conclusion, e.g. (Q)SAR)
 Information about Methylcyclohexane (CAS 108-87-2):
 NOEC activated sludge: 2.73 mg/L/14d (OECD 301 D)
 Information about Octane (CAS 111-65-9):
 EL50 activated sludge: > 1,000 mg/L/15h (data obtained by analogy conclusion, e.g. (Q)SAR)
 EL10 activated sludge: 5.35 mg/L/15h (data obtained by analogy conclusion, e.g. (Q)SAR)
 Information about Cyclohexane (CAS 110-82-7):
 EC50 activated sludge: 29 mg/L/15h
 EC10 activated sludge: 6.82 mg/L/15h (data obtained by analogy conclusion, e.g. (Q)SAR)

Persistence and degradability

Further details: Biodegradability:
 Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):
 Product is not readily biodegradable.
 Information about Methylcyclohexane (CAS 108-87-2):
 Oxygen consumption: 0%/28d (OECD 301 D), not easily bio-degradable
 Information about Octane (CAS 111-65-9):
 Oxygen consumption: 70%/10d, easily bio-degradable
 Information about Cyclohexane (CAS 110-82-7):
 Oxygen consumption: 77%/28d (OECD 301 F), easily bio-degradable

Bioaccumulative potential

Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):
 Bioconcentration factor (BCF): 0.4 - 71,100
 Information about Methylcyclohexane (CAS 108-87-2):
 Bioconcentration factor (BCF): 95 - 321
 Partition coefficient: n-octanol/water:
 3.88 log K(o/w) (Methylcyclohexane)
 Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
 5.15 log K(o/w) (Octane)
 Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
 at 68 °F: 1.99 - 18.02 log K(o/w) (Naphtha (petroleum), hydrotreated light)
 Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
 at 77 °F: 3.44 log K(o/w) (cyclohexane)
 Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Mobility in soil

Information about Naphtha (petroleum), hydrotreated light (CAS 64742-49-0):
 Adsorption coefficient: log KOC: 1.7 - 14.7
 Information about Methylcyclohexane (CAS 108-87-2):
 Adsorption coefficient: log KOC: 2.37 - 3.37

Other adverse effects

General information: This product contains microplastics. Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

UN number

DOT: UN1993

IMDG, IATA-DGR: UN 1993

UN proper shipping name

DOT: UN 1993, FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated light)

IMDG, IATA-DGR: UN 1993, FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)

Transport hazard class(es)

DOT: 3

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3



Packing group

DOT, IMDG, IATA-DGR: II

Environmental hazards

Marine pollutant: yes

Transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

Special precautions for user

USA: Department of Transportation (DOT)

Labels: 3

Symbols: G

Special Provisions: IB2, T7, TP1, TP8, TP28

Packaging – Exceptions: 150

Packaging – Non-bulk: 202

Packaging – Bulk: 242

Quantity limitations – Passenger aircraft / rail:

5 L

Quantity limitations – Cargo only: 60 L

Vessel stowage – Location: B

Sea transport (IMDG)

EmS:	F-E, S-E
Special Provisions:	274
Limited quantities:	1 L
Excepted quantities:	E2
Package - Instructions:	P001
Package - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP1, TP8, TP28
Stowage and handling:	Category B.
Properties and observations:	-
Marine pollutant:	yes
Segregation group:	none

Air transport (IATA)

Proper shipping name:	UN 1993, FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)
Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions:	A3
Emergency Response Guide-Code (ERG):	3H

15. Regulatory information

National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light:	TSCA Inventory: listed; UVCB
Methylcyclohexane:	TSCA Inventory: listed Clean Air Act: CAA SOCM Chemical: yes NIOSH Recommendations: Occupational Health Guideline: 0406
Octane:	TSCA Inventory: listed NIOSH Recommendations: Occupational Health Guideline: 0470*
Cyclohexane:	TSCA Inventory: listed Clean Air Act: CAA SOCM Chemical: yes Clean Water Act: CWA Hazardous Substances: Category C; RQ 1000.0 lbs Other Environmental Laws: CERCLA: RQ 1000 lbs. SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis <=1.0 %; Thresholds 25000/10000 lbs NIOSH Recommendations: Occupational Health Guideline: 0163
Hexane, mixture of isomers (containing < 5 % n-hexane (110-54-3)):	TSCA Inventory: listed

National regulations - U.S. State Regulations

Cyclohexane:	New York Right-To-Know: listed
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Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling:	Contains 70 - 90 % Naphtha (petroleum), hydrotreated light, 2.5 - 10 % Methylcyclohexane, 2.5 - 10 % Octane, 2.5 - 10 % Cyclohexane, 2.5 - 10 % Hexane, mixture of isomers (containing < 5 % n-hexane (110-54-3)).
Revision date:	1/20/2026
Date of first version:	5/25/1999
Reason of change:	Changes in section 2: Classification, labeling Changes in section 3: Composition/information on ingredients Changes in section 9: Physical and chemical properties General revision
Classification procedure:	Physical hazards: on basis of test data Health hazards, environmental hazards: calculation method

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 3 (Serious)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 3 (Serious)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
		X

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
 Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
 AS/NZS: Australian Standards/New Zealand Standards
 Aspiration Toxicity: Aspiration toxicity
 ATEmix: Acute Toxicity Estimate of mixture
 BCF: Bioconcentration Factor
 CAS: Chemical Abstracts Service
 CFR: Code of Federal Regulations
 CLP: Classification, Labelling and Packaging
 DIN: German Institute for Standardization
 DMEL: Derived minimal effect level
 DNEL: Derived no-effect level
 DOT: Department of Transportation's Safety Regulations (USA)
 EC: European Community
 EC50: Effective Concentration 50%
 EL50: Effective loading rate 50%
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 Flammable Liquid: Flammable liquid
 IATA: International Air Transport Association
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IMDG Code: International Maritime Dangerous Goods Code
 IMO: International Maritime Organization
 ISO: International Organization for Standardization
 LC50: Median lethal concentration
 LD50: Lethal dose 50%
 LEL: Lower Explosion Limit
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 M-factor: Multiplication factor
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational Exposure Limit Value
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 QSAR: Quantitative Structure-Activity Relationship
 Skin Irritation: Skin irritation
 STOT SE: Specific target organ toxicity - single exposure
 TDG: Transportation of Dangerous Goods Regulation in Canada
 TLV: Threshold Limit Value
 TRGS: Technical Rules for Hazardous Substances
 UN: United Nations
 vPvB: Very persistent and very bioaccumulative
 WEL: Workplace Exposure Limit

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.