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Safety Data Sheet SEVEN 400

P280 Wear protective gloves/clothing and eye/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/container in accordance with regulation.
 Special Provisions:

 Regulation 648/2004 (Detergents): > 30% Aliphatic hydrocarbons
 The manufacturer cannot be held responsible in case of damages caused by incorrect use of the product.

 Contains

 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 methyl acetate

 Special provisions according to Annex XVII of REACH and subsequent amendments:

 For professional users only.

 23. Other hazards

 No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number		Classification
>= 85% - < 95%	Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	EC: REACH No.:	927-510-4 01-2119475515-33	 2.6/2 Flam. Liq. 2 H225 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411
>= 10% - < 15%	methyl acetate	Index number: CAS: EC:	607-021-00-X 79-20-9 201-185-2	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336 EUH066
>= 1,5% - < 2,9%	methanol	Index number: CAS: EC: REACH No.:	603-001-00-X 67-56-1 200-659-6 01-2119433307-44	 2.6/2 Flam. Liq. 2 H225 3.1/3/Inhal Acute Tox. 3 H331 3.1/3/Dermal Acute Tox. 3 H311 3.1/3/Oral Acute Tox. 3 H301 3.8/1 STOT SE 1 H370 Specific Concentration Limits: C >= 10%: STOT SE 1 H370 3% <= C < 10%: STOT SE 2 H371

For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing and wash them before reuse. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

In case of eyes contact:



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After contact with the eyes, rinse immediately with plenty of water with open eyelids for at least 15 minutes. Remove contact lenses, if it is easy to do so. Then consult an opthalmologist immediately. Protect uninjured eye. In case of Ingestion:

- Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY. In case of Inhalation:
 - Absolutely do not induce vomiting unless directed by your doctor. Do not give anything by mouth if the person is unconscious and if not authorized by the doctor.

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

For symptoms and effects due to the contained substances, see Section 11.

- 4.3. Indication of any immediate medical attention and special treatment needed
 - In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
 - Treatment:
 - None

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media:
- Powder fire extinguisher, carbon dioxide (CO2) and water and foam fire.
- Extinguishing media which must not be used for safety reasons:
 - Do not use water jets on the burning product.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Wear full fire protection equipment (Type EN 11611 or EN469) with self-contained breathing apparatus (Type EN 137), visor helmet and neck protection (Type EN443), anti-heat gloves (Type EN407). Move undamaged containers from immediate hazard area if it can be done safely. Cool with nebulized water the containers invested by the fire to avoid overheating. Do not let the extinguishing media penetrate the sewers or waterways. Collect contaminated fire extinguishing water separately. Fire extinguishing water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Clearly indicate the risk of slipping. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. Use appropriate respiratory protection. See protective measures under point 7 and 8. For emergency responders:

Emergency operators are advised to wear appropriate personal protective equipment as indicated in section 8. The vapors are heavier than air and can accumulate in enclosed spaces and low areas where it can easily catch fire. In the event that the situation can not be fully evaluated or if there is a risk of oxygen deficiency, use only an autonomous respirator (Type EN137).

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of entry into waterways, soil or drains, inform the responsible authorities. **6.3. Methods and material for containment and cleaning up**

In case of leakage of large quantities of product stem and withdraw mechanically by transferring the product into suitable containers: recover if possible. Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists. Use the localized ventilation system. Do not use empty containers before they have been cleaned. Before transfer operations, make sure that there are no residual incompatible materials in the containers. Connect to an earth socket in the case of large packages during the transfer operations and wear antistatic shoes. The strong agitation and the vigorous flow of the liquid in the pipes and equipment can cause formation and accumulation of electrostatic charges. To avoid the danger of fire and explosion, never use compressed air in handling. Open the containers carefully, because they can be under pressure. Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from free flames and heat sources. Avoid direct exposure to the sun. Avoid the accumulation of electrostatic charge. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed.

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Incompatible materials:

See section number 10 Instructions as regards storage premises: Adequately ventilated premises. 7.3. Specific end use(s) None in particular **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics EU-OEL - TWA(8h): 2085 mg/m3, 500 ppm TLV-ACGIH - TWA(8h): 1639 mg/m3, 400 ppm - STEL(15min): 2049 mg/m3, 500 ppm methyl acetate - CAS: 79-20-9 TLV-ACGIH - TWA(8h): 606 mg/m3, 200 ppm - STEL(15min): 757 mg/m3, 250 ppm ACGIH - TWA(8h): 200 ppm - STEL (15 min): 250 ppm methanol - CAS: 67-56-1 EU - TWA(8h): 260 mg/m3, 200 ppm - Notes: Skin ACGIH - TWA(8h): 262 mg/m3, 200 ppm - STEL (15 min): 328 mg/m3, 250 ppm - Note: Skin **DNEL Exposure Limit Values** Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Worker Industry: 300 mg/kg - Consumer: 149 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/day Worker Industry: 2085 mg/m3 - Consumer: 447 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term. systemic effects Consumer: 149 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/day methyl acetate - CAS: 79-20-9 Worker Industry: 610 mg/m3 - Consumer: 131 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 305 mg/m3 - Consumer: 152 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects Worker Industry: 88 mg/kg - Consumer: 44 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 44 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects methanol - CAS: 67-56-1 Worker Industry: 40 mg/kg bw day- Consumer: 8 mg/kg bw day - Exposure: Human Dermal - Frequency: Short Term, systemic effects Worker Industry: 260 mg/m3 - Consumer: 50 mg/kg bw day - Exposure: Human Inhalation - Frequency: Short Term, systemic effects **PNEC Exposure Limit Values** methyl acetate - CAS: 79-20-9 Target: Fresh Water - Value: 0.12 mg/l Target: Marine water - Value: 0.012 mg/l Target: Freshwater sediments - Value: 0.128 mg/kg Target: Marine water sediments - Value: 0.013 mg/kg Target: Soil (agricultural) - Value: 0.042 mg/kg methanol - CAS: 67-56-1 Target: Marine water - Value: 15,4 mg/l Target: Fresh Water - Value: 154 mg/l Target: Freshwater sediments - Value: 570,4 mg/l 8.2. Exposure controls Appropriate engineering controls: Adequately ventilate rooms where the product is stored and handled. Use only if the place is adequately ventilated. Local ventilation might be necessary for certain operations. Minimize exposure concentration at the workplace. Use proper techical equipment to maintain the concentration below threshold limit values or guidelines for exposure. Eve protection: Wear goggles with lateral protection EN166 If exposure to vapours cause a sense of bother to eyes, use antigas mask with complete facial. Protection for skin: Wear clean antistatic and covering garments, and antistatic safety-shoes for professional use, S2 category (Type EN20345). In case of long and frequent contact use protective garments, than are impervious to this product (Type EN340 - EN13034). Protection for hands:



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During manipulation is necessary protect hands with chemical resistant gloves Type EN374 (PVC, PE, neoprene, Nitrile, Viton, not natural Rubber). It is recommended to use gloves with Protective Index 6: permeation time >480min, Thickness >0,3mm. Change gloves in case of wear, cracks or internal contamination.

Respiratory protection:

Product concentration in air should be lower than exposure limit values. As the concentration exceed the threshold limit values, proper respiratory protection should be used. Use protective masks EN149 with FFP2 filters, half-face respirator type EN140 with EN143:A2 filters, or full face breathing mask EN136 with EN143:A2 filters. Thermal Hazards:

None

Environmental exposure controls:

Emissions originating from production and use of the product, included those originated during ventilation operations, should be monitored in order to comply with the environmental protection regulations. Product residuals shouldn't be drained into watercourses or waste water. For further information see section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Notes:
Physical state:	Liquid	
Colour:	Colourless	
Odour:	Characteristic	
Melting point/freezing point:	<5 °C	
Boiling point or initial boiling point and boiling range:	57 °C - 100°C	
Flammability:	flammable	
Lower and upper explosion limit:	N.A.	
Flash point:	< 23°C	
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
pH:	6-8	
Kinematic viscosity:	N.A.	
Solubility in water:	insoluble	
Solubility in oil:	N.A.	
Partition coefficient n-octanol/water (log value):	N.A.	
Vapour pressure:	N.A.	
Density and/or relative density:	0,712 – 0,722 g/cc (20 °C)	
Relative vapour density:	N.A.	
Particle characterist	ics:	
Particle size:	N.A.	

Particle size:

9.2. Other information

Proprietà	Valore	Metodo:
VOC (directive 2010/75/CE)	100,00 %	
VOC (volatile carbon)	78,30 %	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

- Stable under normal conditions
- 10.3. Possibility of hazardous reactions

Vapors can form explosive mixtures with air.

10.4. Conditions to avoid

Avoid exposure to sunlight. Avoid overheating and any ignition source. Avoid the accumulation of electrostatic charges.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

It does not decompose under normal conditions. In case of thermal decomposition may form vapors potentially dangerous to health and forming mixtures that can explode with air.



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SECTION 11: Toxicological information 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product: SEVEN 400 a) acute toxicity LC50 - Route: Inhalation >20 mg/l LD50 - Route: Oral >2000 mg/kg LD50 - Route: Dermal >2000 mg/kg b) skin corrosion/irritation The product is classified: Skin Irrit. 2 H315 c) serious eye damage/irritation The product is classified: Eye Irrit. 2 H319 d) respiratory or skin sensitisation Not classified Based on available data, the classification criteria are not met e) germ cell mutagenicity Not classified Based on available data, the classification criteria are not met f) carcinogenicity Not classified Based on available data, the classification criteria are not met g) reproductive toxicity Not classified Based on available data, the classification criteria are not met h) STOT-single exposure The product is classified: STOT SE 3 H336 i) STOT-repeated exposure Not classified Based on available data, the classification criteria are not met j) aspiration hazard The product is classified: Asp. Tox. 1 H304 Toxicological information of the main substances found in the product: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5840 mg/kg Test: LD50 - Route: Skin - Species: Rat > 2920 mg/kg Test: LC50 - Route: Inhalation - Species: Rat > 23300 mg/m3 - Duration: 4h methanol - CAS: 67-56-1 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 5600 mg/kg Test: LD50 - Route: Skin - Species: Rabbit 15800 mg/kg Test: LC50 - Route: Inhalation - Species: Rat 64000 ppm - Duration: 4h 11.2. Information on other hazards

Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. SEVEN 400 The product is classified: Aquatic Chronic 2 - H411 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish (Oncorhynchus mykiss) > 13.4 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 3 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae (Pseudokirchneriella subcapitata) = 10 mg/l - Duration h: 72 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Fish = 1.534 mg/l - Notes: 28day Endpoint: NOEC - Species: Daphnia = 1 mg/l - Notes: 21day methanol - CAS: 67-56-1 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae 22000 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia magna > 10000 mg/l - Duration h: 48

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Endpoint: LC50 - Species: Fish 15400 mg/l - Duration h: 96 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Fish 446,7 mg/l - Duration: 28d Endpoint: NOEC - Species: shellfish 208 mg/l - Duration: 21d **12.2. Persistence and degradability** N.A. **12.3. Bioaccumulative potential** N.A. **12.4. Mobility in soil**

N.A.

- 12.5. Results of PBT and vPvB assessment
- vPvB Substances: None PBT Substances: None
- 12.6. Endocrine disrupting properties
- No endocrine disruptor substances present in concentration >= 0.1%
- 12.7. Other adverse effects

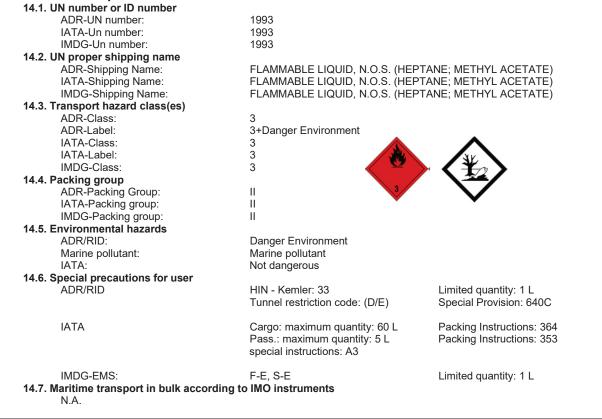
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of product residual according local/national regulations. Recover if possible. In doing so, comply with the local and national regulations currently in force. Empty containers: remove any residual product. Dispose of containers according regulation.

SECTION 14: Transport information



SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP)

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: **Restriction 3 Restriction 40** Restrictions related to the substances contained: **Restriction 69 Restriction 75** Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 Product belongs to category: P5c, E2 15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture. **SECTION 16: Other information** Full text of phrases referred to in Section 3: H225 Highly flammable liquid and vapour.

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H331 Toxic if inhaled.
- H311 Toxic in contact with skin.
- H301 Toxic if swallowed.
- H370 Causes damage to organs.
- H371 May cause damage to organs.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1



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STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Asp. Tox. 1, H304	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

Paragraphs modified from the previous revision: SECTION: 1, 2, 3, 9, 11, 12, 15, 16.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID: STEL:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STOT:	Short Term Exposure limit. Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.
WOIN.	