

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

### 1.1. Product identifier

<b>Trade name</b>	Marisol TC
<b>Article No.</b>	24-4085, 24-4086
<b>UFI code</b>	NNR8-R0SN-A007-J9FV

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

<b>Product type</b>	Degreasing agent
<b>Relevant identified uses</b>	Restricted to professional users.

### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	AB DFS
Street address	Fiskebäcks Hamn 7 426 58 Västra Frölunda Sweden
Telephone	031-29 14 35
Email	order@dfs-ab.se
Web site	www.dfs-ab.se

### 1.4. Emergency telephone number

<b>Emergency phone number</b>	112
<b>Available outside office hours</b>	Yes

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

<b>Classification</b>	Specific Target Organ Toxicity — Repeated exposure, hazard category 1 Hazardous to the aquatic environment — Chronic hazard category 3 Serious eye damage, hazard category 1 Aspiration hazard, hazard category 1
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<b>Hazard statements</b>	H304, H318, H372, H412
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### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

**Hazard pictograms**



**Signal word** Danger

<b>Hazard statements</b>	H304 May be fatal if swallowed and enters airways. H318 Causes serious eye damage. H372 Causes damage to organs through prolonged or repeated exposure CNS (Inhalation). H412 Harmful to aquatic life with long lasting effects.
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**Precautionary statements**

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor  
P270 Do not eat, drink or smoke when using this product.  
P405 Store locked up.

*2.3. Other hazards*

**Other hazards**

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

*3.2. Mixtures*

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	- 919-164-8 01-2119473977-17 -	30 - 100%	Asp. Tox. 1, STOT RE 1, Aquatic Chronic 3	H304, H372, H412, EUH066 - -	-
C9-11 Alcohol ethoxylate	68439-46-3 614-482-0 01-2119980051-45 -	5 - 15%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-

**Substance additional information**

Section 16 for the full text of H-phrases mentioned in this section.

## SECTION 4: First aid measures

*4.1. Description of first aid measures*

**Description of first aid measures**

In uncertainty or when symptoms persist, seek medical attention.

**Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In the event of breathing difficulties, provide respiration assistance and contact a doctor immediately.

**Skin contact**

Remove contaminated clothing and shoes immediately. IF ON SKIN: Wash with plenty of soap and water.

**Eye contact**

In case of contact with eyes, remove any contact lenses and rinse immediately with plenty of water, even under the eyelids, for at least 15 minutes. Seek medical attention immediately.

**Ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). DO NOT INDUCE VOMITING! Call a physician immediately.

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

**Most important symptoms and effects, both acute and delayed**

Harmful: may cause lung damage if swallowed.  
Risk of serious damage to eyes.

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

<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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<b>Unsuitable extinguishing media</b>	Do not use a direct jet of water.
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### 5.2. Special hazards arising from the substance or mixture

<b>Special hazards arising from the substance or mixture</b>	The product may accumulate static electricity.
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### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask. Firefighter equipment (eg helmet, safety boots and gloves) that complies with the European standard EN 469, provides basic protection in the event of chemical accidents.
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<b>Measures in case of fire</b>	Immediately isolate the area by dismissing people in the vicinity of the fire. No measures involving personal risk shall be taken without training or measures. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure good ventilation. Avoid contact with the skin and the eyes. Do not inhale fumes. Evacuate personnel to safe areas. Wear suitable protective equipment.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Prevent entry to sewers and public waters. Notify the responsible authority in the event of contamination of soil or water, or discharges into sewage systems.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods and material for containment and cleaning up</b>	Stop leaks only if no risk is involved. Absorb in inert material (vermiculite, dry sand or soil) and collect. Minor spillages must be wiped up or rinsed away with water. Pick up and transfer to properly labelled containers.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	Personal protection see section 8 and for disposal see section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Preventive handling precautions</b>	Ensure good ventilation/extraction at the workplace. Do not inhale fumes. Empty containers contain product residues and can be dangerous. Prevent sparking as a result of static electricity. The equipment must be earthed. Wear personal protective equipment.
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<b>General hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Eye rinsing equipment should be located near the workplace. Wash hands after handling. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using the product.
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### 7.2. Conditions for safe storage, including any incompatibilities

<b>Conditions for safe storage, including any incompatibilities</b>	Keep locked-up. Keep container tightly closed. Store separately from sources of ignition. Keep in properly labelled containers.
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### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	Identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Handle in accordance with good hygiene and safety practice, and only in well ventilated areas.
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<b>Eye / face protection</b>	Use goggles or face shield (EN 166).
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<b>Hand protection</b>	For prolonged or repeated contact use protective gloves. Protective gloves complying with EN 374.
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<b>Other skin protection</b>	Wear suitable protective clothing.
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<b>Respiratory protection</b>	Wear breathing protection with a type A filter (brown) in the event of insufficient ventilation.
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<b>Environmental exposure controls</b>	Prevent discharges to watercourses, waste water or the ground. See Section 7 for information on safe handling.
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
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<b>Colour</b>	Yellowish
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<b>Odour</b>	Weak
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<b>Melting point / freezing point</b>	No information available
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<b>Boiling point or initial boiling point and boiling range</b>	No information available
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<b>Flammability</b>	No information available
<b>Lower and upper explosion limit</b>	No information available
<b>Flash point</b>	>62
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>pH</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Solubility</b>	Not miscible with water.
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Density and/or relative density</b>	800 kg/m <sup>3</sup>
<b>Relative vapour density</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidising properties</b>	No information available

*9.2. Other information*

<b>Other information</b>	No information available
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## SECTION 10: Stability and reactivity

*10.1. Reactivity*

<b>Reactivity</b>	None under normal use.
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*10.2. Chemical stability*

<b>Chemical stability</b>	Stable under normal usage and storage conditions.
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*10.3. Possibility of hazardous reactions*

<b>Possibility of hazardous reactions</b>	None known.
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*10.4. Conditions to avoid*

<b>Conditions to avoid</b>	Avoid contact with strong oxidizing agents. Keep away from flames and sparks.
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*10.5. Incompatible materials*

<b>Incompatible materials</b>	Avoid contact with strong oxidizing agents.
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10.6. Hazardous decomposition products

**Hazardous decomposition products**

No harmful degradation products during normal handling.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Ingestion may cause nausea and vomiting. Aspiration into the lungs during vomiting or ingestion can result in chemical pneumonia.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	LD50	> 15000 mg/kg	Oral	-	Rat	OECD 401
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	LD50	>13,1 mg/l	Inhalation	4 h	Rat	OECD 403
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	LD50	> ~3400 mg/kg	Dermal	24h	Rabbit	OECD 402
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	LD50	3488 mg/kg bw	Oral	-	Rat	OECD 401
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	LD50	> 2000 mg/kg bw	Dermal	24h	Rabbit	OECD 402
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	LC50	> 1600 mg/m <sup>3</sup>	Inhalation	4h	Rat	OECD 403

**Skin corrosion/irritation**

Based on the available data, the classification criteria are not met.

Degreases the skin. Protracted or repeated exposure may cause drying and cracking of the skin.

**Serious eye damage/irritation**

Causes serious eye damage.

**Germ cell mutagenicity**

Based on the available data, the classification criteria are not met.

**Carcinogenicity**

Based on the available data, the classification criteria are not met.

**Reproductive toxicity**

Based on the available data, the classification criteria are not met.

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**STOT-single exposure** Based on the available data, the classification criteria are not met.

**STOT-repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Toxicity in case of inhalation** May cause headache, dizziness, fatigue and nausea.

**11.2. Information on other hazards**

**Other information** No information available

## SECTION 12: Ecological information

**12.1. Toxicity**

**Acute toxicity** Long term adverse effects to aquatic organisms.

**Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	LL50	10-30 mg/l	96 h	Rainbow trout
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	LC50	5-7 mg/l	96h	Rainbow trout

**Acute algae toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	EL50	10-100 mg/l	72 h	Pseudokirchneriella subcapitata
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	ErC50	1.4 mg/l	96h	Selenastrum capricornutum (green algae)

**Acute crustacean toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	EL50	10-22 mg/l	48 h	Daphnia magna (Water flea)
C9-11 Alcohol ethoxylate 68439-46-3 / 614-482-0	EC50	2.5 mg/l	96h	Daphnia magna (Water flea)

**Chronical toxicity**

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	NOELR	0,28 mg/l	21 days	Daphnia magna (Water flea)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	NOELR	0,28 mg/l	21 days	Daphnia magna (Water flea)

*12.2. Persistence and degradability*

**Persistence and degradability**

The component surfactants are easily biodegradable according to Regulation (EC) No 648/2004 on detergents.

Product / Substance name CAS / EC no.	Duration	Result	Degradation	Method / Guideline
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	28 days	74,7%	Readily biodegradable	PETRORISK model
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) / 919-164-8	28 days	74,7%	Readily biodegradable	PETRORISK model

*12.3. Bioaccumulative potential*

**Bioaccumulative potential**

No information available for the product.

*12.4. Mobility in soil*

**Mobility**

No information available

*12.5. Results of PBT and vPvB assessment*

**Results of PBT and vPvB assessment**

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

*12.6. Endocrine disrupting properties*

**Endocrine disrupting properties**

No information available

*12.7. Other adverse effects*

**Other adverse effects**

No information available

## SECTION 13: Disposal considerations

*13.1. Waste treatment methods*

**Disposal considerations**

The product is hazardous waste. Dispose of any product, residue or packing material according to national and local regulations. Empty containers contain product residues and can be dangerous. Do not dispose of waste into sewer. Empty, cleaned packaging can be sorted for recycling.

**Packaging**

Contaminated packaging must be disposed of as product.



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Waste code	Description
07 06 04*	other organic solvents, washing liquids and mother liquors

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

*Other*

**Waste code**

The waste code is a recommendation. Depends on business area and use. Appropriate classification of waste is the user's responsibility.

## SECTION 14: Transport information

*14.1. UN number*

**UN number**

Not classified as dangerous in the meaning of transport regulations.

*14.2. UN proper shipping name*

Not applicable

*14.3. Transport hazard class(es)*

Not applicable

*14.4. Packing group*

Not applicable

*14.5. Environmental hazards*

Not applicable

*14.6. Special precautions for user*

Not applicable

*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*

**EU regulations**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, REACH.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council, CLP.  
EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 648/2004 on detergents.  
The International Maritime Dangerous Goods (IMDG) Code, 2020 Edition.

**National regulations**

Local laws and regulations should be carefully observed.

*15.2. Chemical safety assessment*

**Chemical safety assessment**

No chemical safety assessment has been performed.

## SECTION 16: Other information

**Changes to previous revision**

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**Abbreviations**

PBT: Persistent, Bioaccumulative and Toxic.  
vPvB: very Persistent and very Bioaccumulative.  
DNEL: Derived level without observed effects.  
PNEC: Presumed concentration without observed effects.  
LD50: Lethal dose, the dose that kills 50% of a population.  
LC50: Lethal concentration for 50% of a test population.

**References to key literature and data sources**

Classification and Labeling Register (ECHA)  
ECHA - Registered substances

**Phrase meaning**

Asp. Tox. 1 - Aspiration hazard, hazard category 1  
STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1  
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3  
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4  
Eye Dam. 1 - Serious eye damage, hazard category 1  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure .  
H412 Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

*Other*

**Manufacturer's notes**

Regulation (EC) No 648/2004 on detergents:  
Aliphatic hydrocarbons >30% : Non-ionic surfactants 5-15%