



according to EC Regulation 1907/2006 and seq. amendments (Regulation n.453/2010)

MSDS

Sheet created on: 11/02/2021 Update N. 00 of -



## XK1 SYNTHETIC PLUS TECHNOLOG ENGINE OIL 5W-20 (SN/CF | C5 | GF-5) – HI-TECH TYPE

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

## 1.1. Product identifier

Identification of the mixture:MixtureCommercial name:XK1 SYNTHETIC PLUS TECHNOLOGY ENGINE OIL 5W-20<br/>(SN/CF | C5 | GF-5) – HI-TECH TYPECommercial code:OEX5201.01 (1L) – OEX5201.05 (5L) – OEX5201.20 (20L) –<br/>OEX5201.60 (60L) – OEX5201.99 (205L)

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

Identified use: Lubricating oil for four-stroke petrol and diesel engines. Uses advised against: Strictly follow the recommended use.

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

EXO Automotive Spa UnipersonaleVia San Marco 11c Interno 6935129 PADOVA Italywww.exoautomotive.comContacts:Phone:(+39) 049 744 99 70Fax:(+39) 049 744 99 71Mail:info@exoautomotive.com

Office hours: from Monday to Friday 9:00 ÷ 13:00 and 14:00 ÷ 18:00

#### 1.4. Emergency telephone number

Foreign Countries: Contact the closest Poisons Information Centre.





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# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Criteria in accordance with Regulation (EC) 1272/2008 (CLP):

The product is not considered as hazardous mixture in accordance with Regulation (EC) 1272/2008 (CLP).

Physico-chemical effects that harmful to human health and the environment: No other danger.

#### 2.2. Label elements

The product is not considered as hazardous mixture in accordance with Regulation (EC) 1272/2008 (CLP).

Symbol:

None.

Hazard statements:

No hazard statements.

Precautionary statements:

No precautionary statements.

Special provisions:

No special provisions.

Contains:

C14-16-18 ALKYL PHENOL: May cause an allergic skin reaction. LONG CHAIN ALKYL THIO CARBAMIDE METAL COMPLEX: May cause an allergic skin reaction.

Special provisions based on Annex XVII of REACH and subsequent amendments: No provisions.

## 2.3. Other hazards

vPvB substance: None. – PBT substance: None. Other hazards: No other hazatds.

## SECTION 3: Composition/information on ingredients

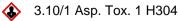
## 3.1. Substances

N.A.

#### 3.2. Mixtures

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

>= 80% - < 90% DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC REACH No.: 01-2119484627-25-xxxx, Index number: 649-467-00-8, CAS: 64742-54-7, EC: 265-157-1



DECLL (CLP)\*





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>= 1% - < 3% ZINC BIS[O-(6-METHYLHEPTYL)] BIS[O-(SEC-BUTYL)] BIS(DITHIOPHOSPHATE) REACH No.: 01-2119543726-33, EC: 298-577-9

(1) 3.2/2 Skin Irrit. 2 H315



4.1/C2 Aquatic Chronic 2 H411

**EXPERIMENTAL DATA\*\*** 

- >= 1% < 3% BIS(NONYLPHENYL)AMINE REACH No.: 01-2119488911-28, CAS: 36878-20-3, EC: 253-249-4
  - 4.1/C4 Aquatic Chronic 4 H413
- >= 1% < 3% C14-16-18 ALKYL PHENOL REACH No.: Not applicable. Substance present as an impurity.
- () 3.4.2/1B Skin Sens. 1B H317
  - 4.1/C4 Aquatic Chronic 4 H413
  - TOXICOLOGICAL TESTS\*\*\*
- >= 0.1% < 0.25% LONG CHAIN ALKYL THIO CARBAMIDE METAL COMPLEX REACH No.: 01-0000019337-66, EC: 457-320-2
- (1) 3.2/2 Skin Irrit. 2 H315
- 3.4.2/1B Skin Sens. 1B H317
  - 4.1/C3 Aquatic Chronic 3 H412

\*DECLL (CLP): Substance classified in accordance with note L, of annex VI of Regulation (EC) 1272/2008 - CLP. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

EXPERIMENTAL DATA: based on the declaration of the supplier on the additive, although the classification of the mixture is required based on the substance EC 298-577-9, the supplier's experimental data exclude the danger of "eye irritant cat.2 H319" at the concentrations used.

\*\*\*TOXICOLOGICAL TESTS: the supplier declares to be in possession of experimental data on salicylated substances (which contain C14-16-18 Alkyl Phenol as an impurity), which show that they are not skin sensitizers and therefore do not carry the classification "skin sensitizer cat.1B H317".





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For the full text of hazard statements, see Section 16.

All concentrations are expressed in weight percent units for liquids or volume percent units for gaseous products.

Other components determined as non-hazardous until 100% completion of the formula.

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

High pressure jet injuries require immediate surgery and possibly steroid therapy, to minimize tissue damage and loss of function.

Any substance, in the case of accidents involving pressurized pipes and similars, can be accidentally injected into the subcutaneous tissues, even without apparent external injuries. In this case it is necessary to take the injured person to hospital as soon as possible for appropriate treatment.

Remove contaminated clothing.

Take off contaminated clothing immediately.

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.

Wash the body completely (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

#### In case of eye contact:

Immediately wash eyes with plenty of water for a few minutes holding the eyelids apart. Seek medical attention in case of persisting pain and redness.

In case of ingestion:

Do not induce vomiting under any circumstances. SEEK MEDICAL ATTENTION IMMEDIATELY.

In case of inhalation:

In case of exposure to high concentrations of vapors and mists, remove the victim from the contaminated area by taking him to a well-ventilated place. Seek medical attention if necessary.

Take the injured person to fresh air and keep him warm and at rest.

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

None.

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

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet).

Treatment:

None.





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# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

Use class B fire extinguishing media: carbon dioxide, dry chemical powder, foam, sand, earth. Water spray.

Caron dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

Avoid the use of water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

No unsuitable extinguishing media known.

#### 5.2. Special hazards arising from the substance or mixture

Avoid inhaling combustion fumes as in a fire, compounds of chlorine, sulfur, nitrogen, unburnt hydrocarbons and other potentially dangerous derivatives can be formed. Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke.

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#### 5.3. Advice for firefighters

Note: Cool the fire affected containers with water to avoid any explosion and the spread of the fire. Use suitable respiratory equipment.

The contaminated extinguishing water should be collected separately. Do not discharge it into the sewer system.

If it can be done without danger, move undamaged containers from the area of immediate danger.

Protective clothing complete with self-breathing apparatus.

#### **SECTION 6: Accidental release measures**

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

Avoid contact with skin and eyes by wearing suitable protective clothing.

In case of large spillage, especially in a confined places, avoid breathing the vapors by ventilating the environment or wear protective equipment for the respiratory tract.

Wear personal protective equipment.

Move people to a safe place.

See protective measures in Sections 7 and 8.

#### 6.2. Environmental precautions

Do not allow the product to enter sewers/soil/surface or ground water. Notify the respective authorities.

Prevent penetration into the soil / subsoil. Prevent run-off into surface water or sewage.

Retain contaminated washing water and eliminate it.

In the event of a gas leak or entry into waterways, soil or the sewer system, inform the responsible authorities.

Material suitable for collection: absorbent, organic material, sand.

#### 6.3. Methods and material for containment and cleaning up

Dike in case of leakage of significant quantities of product. Contain the spills of small quantities of product with earth, sand or other inert absorbent material. Transfer to appropriate





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waterproof containers suitable for the storage and transport of the collected material. Dispose of in accordance with current legislation. Wash with plenty of water.

## 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid direct contact with the product.

Avoid breathing aerosols or vapors of the product, ensure adequate ventilation of the work environment, especially if closed.

Avoid contact with skin and eyes, inhalation of vapors and mists.

Do not use empty containers before they have been cleaned.

Before the transfer operations make sure that there are no incompatible residual materials in the containers.

Contaminated clothing must be replaced before entering the dining areas.

At work do not eat or drink.

See also Section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed and properly labeled.

Storage facilities must be equipped with appropriate systems to prevent soil and water contamination in the event of leaks or spills.

The structure of the storage area, the characteristics of the tanks, the equipment and the operating procedures must comply with the relevant legislation in the European, national or local context.

If the product is supplied in containers, store only in the original container or in a container suitable for the type of product.

Keep the product in the original containers stored in environments and conditions that ensure the control and containment of leaks. Store in a cool place, away from any source of heat or ignition and direct exposure to sunlight. Avoid the accumulation of electrostatic charges. Keep the containers tightly closed. Ensure adequate ventilation of the premises.

Keep away from food, drink and feed.

#### Incompatible materials:

None in particular. See also the following SECTION 10.

Indication for the premises:

Adequately ventilated rooms.

#### 7.3. Specific end use(s)

None in particular.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

None in particular under normal conditions of use.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - CAS: 64742-54-7 ACGIH-2011 - LTE(8h): 5 mg/m<sup>3</sup> - Note: TWA-TLV (mineral oil mists / aerosols).





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DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - CAS: 64742-54-7 ACGIH-2011 - LTE(8h): 5 mg/m<sup>3</sup> - Note: TWA-TLV (mineral oil mists / aerosols).

DNEL values:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - CAS: 64742-54-7 Professional worker: 5.4 mg/m<sup>3</sup> - Consumer: 1.2 mg/m<sup>3</sup> - Exposure: Inhalation Human -Frequency: Long term, local effects - Note: mineral oil mists / aerosols.

BIS(NONYLPHENYL)AMINE - CAS: 36878-20-3

Professional worker: 0.62 mg/kg - Consumer: 0.31 mg/kg - Exposure: Dermal Human - Frequency: Long term, systemic effects
 Professional worker: 4.37 mg/m<sup>3</sup> - Consumer: 1.09 mg/m<sup>3</sup> - Exposure: Inhalation
 Human - Frequency: Long term, systemic effects
 Consumer: 0.31 mg/kg - Exposure: Oral Human - Frequency: Long term, systemic effects

PNEC values:

BIS(NONYLPHENYL)AMINE- CAS: 36878-20-3

Compartment: Freshwater - Value: 0.1 mg/l Compartment: Marine water - Value: 0.01 mg/l Compartment: Freshwater sediment - Value: 132,000 mg/kg Compartment: Marine water sediment- Value: 13,200 mg/kg Compartment: Soil - Value: 263,000 mg/kg

#### 8.2. Exposure controls

Eye/face protection:

Wear safety glasses if there is a risk of contact with the product.

For more information refer to the EN 166 standard.

Glasses with side protection.

Skin protection:

Use overalls and aprons made of suitable material; immediately change contaminated clothing and wash it thoroughly before reuse.

It is advisable to maintain good personal hygiene and work clothing.

For more information refer to the EN 465/466/467 standards.

Work suit.

Hand protection:

Wear work gloves (for example in neoprene, nitrile or PVC), preferably with internal lining resistant to mineral oils or solvents. Gloves must be replaced at the first signs of wear. Put on gloves after proper hand cleaning.

In the case of non-prolonged contacts, the use of barrier creams can be a useful protection tool.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer.

For more information, refer to the EN 374 standard.

Butyl rubber (butyl rubber).

PVC (polyvinyl chloride).

Respiratory protection:

If the operating procedures and other means to limit the exposure of workers are not adequate - in order to respect the exposure limit values specified in SECTION 8 - other means of





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respiratory protection are necessary: masks with cartridges for organic vapors and for dusts / mists (e.g. activated carbon mask).

Not needed for normal use.

Thermal hazards:

Wear protective clothing during operations involving hot material: heat-resistant clothing (with pants over the boots and sleeves over the cuff of the gloves), heavy heat-resistant and non-slip boots (e.g. leather).

Environmental exposure controls:

Storage facilities must be equipped with appropriate systems to prevent soil and water contamination in the event of leaks or spills.

In case of discharge to an urban wastewater treatment plant, no treatment is required. Do not release into the environment.

Prevent the release of undiluted substances or recover them from wastewater.

Refer to the current legislation on atmospheric pollution (DPR 24/05/88, n. 203), soil pollution (DM 25/10/1999, n. 471) and water (D.Lgs. 11/05 / 1999, no. 152).

## **SECTION 9: Physical and chemical properties**

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

9.1. Information on basic physical and chemical properties		
Appearance and color:	CLEAR 2,5	ASTM D1500
Odour:	CHARACTERISTIC MINERAL	
Odour threshold:	N.A.	
pH:	N.A.	
Melting point/freezing point:	-24 °C (pour point)	ASTM D5950
Boiling point or initial boiling po	oint and boiling range:	N.A.
Flammability solid/gas:	N.A.	
Upper/lower flammability or ex	plosive limits:	N.A.
Vapour density:	N.A.	
Flash point:	230 °C	ASTM D92
Evaporation rate:	N.A.	
Vapour pressure:	N.A.	
Relative densitiy:	0.850 g/cm <sup>3</sup> at 20 °C	ASTM D4052
Water solubility:	INSOLUBLE	
Fat solubility:	N.A.	
Partition coefficient (n-octanol/	water):	N.A.
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	45 cSt at 40 °C	ASTM D7279
Explosive properties:	N.A.	
Oxidizing properties:	N.A.	
9.2. Other information		
Miscibility:	N.A.	
Fat solubility:	N.A.	
Conductivity:	N.A.	





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# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Avoid contact with strong acids and bases and oxidizing agents. Stable under normal conditions.

#### **10.2. Chemical stability**

Stable product at room temperature. Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions** None.

10.4. Conditions to avoid

Stable under normal conditions.

**10.5. Incompatible materials** 

None in particulare.

**10.6. Hazardous decomposition products** None.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Toxicological information of the mixture:

May cause slight irritation.

General warning: the high pressure injection of the product into the skin can lead to local necrosis if the product is not surgically removed.

Frequent and prolonged contacts can degrease and irritate the skin, also causing dermatitis. Prolonged exposure to the product can cause drowsiness and dizziness.

Prolonged exposure to product vapors or mists can cause irritation to the respiratory tract.

Toxicological information concerning the main substances present in the mixture:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - CAS: 64742-54-7
a) acute toxicity:

Test: LD50 - Via: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Via: Skin - Species: Rabbit > 2000 mg/kg
Test: LD50 - Via: Inhalation > 5 mg/l

g) reproductive toxicity:

Test: NOAEL - Via: Skin > 2000 mg/kg - Note: this substance showed no effects on reproductive parameters.
i) specific target organ toxicity (STOT) - Repeated exposure:

Test: NOAEL - Via: Inhalation > 220 mg/m<sup>3</sup> - Note: local effects.

Test: NOAEL - Via: Inhalation > 980 mg/m<sup>3</sup> - Note: systemic effects.





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ZINC BIS[O-(6-METHYLHEPTYL)] BIS[O-(SEC-BUTYL)] BIS(DITHIOPHOSPHATE) a) acute toxicity:

Test: LD50 - Via: Oral = 2600 mg/kg - Note: Can be harmful if ingested.

Test: LD50 - Via: Skin > 3160 mg/kg - Note: OECD Guideline 402.

b) skin corrosion/irritation:

Test: Irritating to skin - Via: Skin yes - Duration: 4h - Note: OECD Guideline 404. c) serious eye damage/irritation:

Test: Irritating to the eyes yes - Note: 16 CFR 1500.42.

BIS(NONYLPHENYL)AMINE - CAS: 36878-20-3

a) acute toxicity:

Test: LD50 - Via: Oral - Species: Rat > 5000 mg/kg - Note: OECD TG 401. Test: LD50 - Via: Skin - Species: Rat > 2000 mg/kg - Note: OECD TG 402.

LONG CHAIN ALKYL THIO CARBAMIDE METAL COMPLEX

b) skin corrosion/irritation:

Test: Irritating to skin - Via: Skin yes - Duration: 4h - Note: OECD Guideline 404. d) respiratory or skin sensitisation:

Test: Skin sensitizer - Via: Skin yes - Note: Maximisation Test.

Unless otherwise specified, the data required by the Regulation indicated below are to be understood as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;

#### ZINC BIS[O-(6-METHYLHEPTYL)] BIS[O-(SEC-BUTYL)] BIS(DITHIOPHOSPHATE)

Based on the declaration of the supplier on the additive, although the classification of the mixture is required based on the substance EC 298-577-9, the supplier's experimental data exclude the danger of "eye irritant cat.2 H319" at the concentrations used.

d) respiratory or skin sensitisation;

C14-16-18 ALKYL PHENOL

The supplier declares to be in possession of experimental data on salicylated substances (which contain C14-16-18 Alkyl Phenol as an impurity), which show that they are not skin sensitizers and therefore do not carry the classification "skin sensitizer cat.1B H317".

e) germ cell mutagenicity;

f) carcinogenicity;

g) reproductive toxicity;

h) specific target organ toxicity (STOT) – Single exposure;

i) specific target organ toxicity (STOT) - Repeated exposure;

j) aspiration hazard.





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# SECTION 12: Ecological information

## 12.1. Toxicity

Use according to good working practices, avoid dispersing the product in the environment.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - CAS: 64742-54-7 a) Acute aquatic toxicity:

Endpoint: EL50 > 10000 mg/l - Note: invertebrates.

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48

Endpoint: NOELR - Species: Algae > 100 mg/l

Endpoint: IC50 - Species: Algae > 1000 mg/l - Duration h: 72

Endpoint: LL50 - Species: Fish > 100 mg/l

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

#### b) Chronic aquatic toxicity:

Endpoint: NOELR > 10 mg/l - Note: invertebrates. Endpoint: NOELR - Species: Fish = 10 mg/l

ZINC BIS[O-(6-METHYLHEPTYL)] BIS[O-(SEC-BUTYL)] BIS(DITHIOPHOSPHATE)

a) Acute aquatic toxicity:

Endpoint: LC50 - Species: Oncorynchus Mykiss = 4.5 mg/l - Duration h: 96 - Note: Semi-static test. OECD Guideline 203. Endpoint: EL50 - Species: Dafaie - 5.4 mg/l - Durata h: 48 - Note: Static test. OECE

Endpoint: EL50 - Species: Dafnie = 5.4 mg/l - Durata h: 48 - Note: Static test. OECD Guideline 202.

Endpoint: EC50 - Species: Selenastrum Capricornutum = 2.1 mg/l - Duration h: 96 - Note: Static test. OECD Guideline 201.

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#### b) Chronic aquatic toxicity:

Endpoint: LC50 - Species: Danio Rerio > 100 mg/l - Duration h: 96 - Note: OECD TG 203.

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Note: OECD TG 202. Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Note: OECD TG 201.

LONG CHAIN ALKYL THIO CARBAMIDE METAL COMPLEX

a) Acute aquatic toxicity:

Endpoint: NOEC - Species: Oncorynchus Mykiss = 94.8 mg/l - Duration h: 96 - Note: Semi-static test. OECD Guideline 203.

Endpoint: EL50 - Species: Daphnia = 50 mg/l - Duration h: 48 - Note: Static test. OECD Guideline 202.

Endpoint: EC50 - Species: Pseudokirchneriella Subcapitata = 9.62 mg/l - Duration h: 72 - Note: Growth inhibitor. OECD Guideline 201.

Endpoint: IC50 - Species: Bacteria > 100 mg/l - Duration h: 3 - Note: Breathing inhibitor. b) Chronic aquatic toxicity:

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 504

#### 12.2. Persistence and degradability

The product floats on water.

The product is superficially adsorbed in the soil.

The product hardly evaporates.





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## 12.3. Bioaccumulative potential

ZINC BIS[O-(6-METHYLHEPTYL)] BIS[O-(SEC-BUTYL)] BIS(DITHIOPHOSPHATE) Bioaccumulation: N.A.Test: Kow - Partition coefficient 0.9 - Duration: N.A. - Note: at 23°C.

BIS(NONYLPHENYL)AMINE - CAS: 36878-20-3

Bioaccumulation: N.A.Test: Kow - Partition coefficient 7.6 - Duration: 0.1 day - Note: N.A.

#### 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

vPvB substance: None. – PBT substance: None.

#### 12.6. Other adverse effects

N.A.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste products (and emulsions in the case of water-soluble cooling lubricants) and containers by transferring them to authorized companies in compliance with the provisions contained in the D.P.R. n. 691 of 23/08/82 (Compulsory Consortium of Used Oils) and in Part IV of the Environmental Code (Legislative Decree no. 152 of 3/4/2006) and subsequent amendments.

Do not discharge into sewers, drains or waterways. Observe the laws in force.

Recover if possible. Operate according to local and national regulations.

Where applicable, refer to the following regulations: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

## SECTION 14: Transport information

#### 14.1. UN number

Not subject to the conventions of carriage of dangerous goods.

#### 14.2. UN proper shipping name

N.A.

#### 14.3. Transport hazard class(es)

N.A.

# 14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user





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N.A.

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code N.A.

# SECTION 15: Regulatory information

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

- Legislative Decree 3/2/1997 n. 52 (Classification, packaging and labeling of dangerous substances)
- Legislative Decree 14/3/2003 n. 65 (Classification, packaging and labeling of dangerous preparations)
- Legislative Decree 9/4/2008 n. 81
- Ministerial Decree on Work 26/02/2004 (Professional Exposure Limits)
- Ministerial Decree 03/04/2007 (Implementation of Directive (EC) 2006/8)
- Regulation (EC) no. 1907/2006 (REACH) and subsequent amendments
- Regulation (EC) no. 1272/2008 (CLP) and subsequent amendments

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

None.

Where applicable, please refer to the following regulations:

- Ministerial Circulars 46 and 61 (Aromatic amines).
- Legislative Decree 21 September 2005 no. 238 (Seveso Ter Directive).
- D.P.R. 250/89 (Detergent labeling).
- D.L. 3/4/2006 n. 152 Environmental regulations.
- Ministerial Decree of 13 February 2003: third summary list of harmonized standards concerning the implementation of Directive no. 89/686/EEC relating to personal protective equipment.
- Legislative Decree no. 81 of 9/4/2008: Implementation of article 1 of Law 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.
- Ministerial Decree January 14, 2008: List of diseases for which reporting is mandatory pursuant to and for the purposes of article 139 of the consolidated act approved by decree of the President of the Republic June 30, 1965, n. 1124, and subsequent amendments and additions.
- D.P.R. n. 689 of 26/05/1959: Determination of the companies and processes subject, for the purposes of fire prevention, to the control of the Command of the Fire Brigade.
- Directive 98/8/EC of 16 February 1998 relating to the placing on the market of biocides.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.





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## XK1 SYNTHETIC PLUS TECHNOLOG ENGINE OIL 5W-20 (SN/CF | C5 | GF-5) – HI-TECH TYPE

# **SECTION 16: Other information**

Do not use the product for uses other than those intended. In this case, the user may be subject to unforeseen risks.

Text of the sentences used in section 3:

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
H317 Può provocare una reazione allergica cutanea.

This document has been written by an SDS technician who has received adequate training.

Literature references:

- 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.
- CCNL Annex 1.
- National Institute of Health National Inventory of Chemical Substances..

The information contained herein is based on our knowledge as of the above date. They refer only to the product indicated and do not constitute a guarantee of particular quality.

The user is required to ensure the suitability and completeness of such information in relation to the specific use he must make of it.

This safety data sheet supersedes all previous versions.

ADR:	Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
DNEL:	Derived-No-Effect-Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances in Germany.
GHS:	Globally Harmonized System of Classification and Labelling of
	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulations of the "International Air Transport Association " (IATA).
ICAO:	Safe Transport of Dangerous Goods by Air
ICAO-TI:	Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO).





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IMDG: INCI: KSt: LC50:	International Maritime Dangerous Goods International nomenclature of cosmetic ingredients Coefficient of explosion. Lethal concentration resulting in 50 % mortality.
LD50:	Lethal dose resulting in 50 % mortality (median lethal dose)
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STE:	Short term exposure
STEL:	Short Term Exposure Limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold limit value.
TWATLV:	Threshold limit value for the 8-hour weighted average. (ACGIH Standard).
WGK:	Water hazard class (Germany).

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Reason for revision	-

This sheet cancels and replaces those issued on a previous date. The information contained herein is based on our current knowledge on health, safety and the environment, and is intended to allow the user of the product - under whose control it is used - to identify preventive and protective behaviours useful for the purpose of safe operation. The user of the product, prior to uses other than those envisaged, must check whether other information is required, always considering compliance with the relevant laws and good operating practice. This document does not replace the chemical risk analysis, which remains the sole responsibility of the employer. No responsibility is assumed for any improper use of the product. The characteristics mentioned should not be considered as a guarantee of specific properties of the product.