# SAFETY DATA SHEET



(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: SYSTEM KEEP CLEAN DIESEL

Product code: 68912

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

Additive

**2** 

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

Registered company name: MOTUL

Address: 119, Boulevard Felix Faure. 93300 AUBERVILLIERS CEDEX FRANCE

Telephone: 33.1.48.11.70.00. Fax: 33.1.48.33.28.79. Telex: .

Email: motul\_hse@motul.fr

**₩** 

# 1.4. Emergency telephone number: +44 (0) 1235 239 670.

Association/Organisation: ORFILA.

 $\langle \rangle$ 

#### Other emergency numbers

BRAZIL: +55 11 3197 5891 / COLOMBIA: +57 601 508 7337 / ARGENTINA: +54 11 5984 3690 / CHILE: +562 2582 9336

Ireland: +353 1 8092566

UNITED STATES: 001 866 928 0789 / CANADA: 001 800 579 7421 / MEXICO: +52 55 5004 8763 / MIDDLE EAST - AFRICA: +44 1235

239671

24 hours a day, 7 days a week

## **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

Repeated exposure may cause skin dryness or cracking (EUH066).

May produce an allergic reaction (EUH208).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

## 2.2. Label elements



# In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS08

Signal Word : DANGER

Product identifiers:

EC 926-141-6 HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

EC 918-811-1 HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Additional labeling:

EUH208 Contains REACTION PRODUCTS WITH SUCCINIC ANHYDRIDE POLYISOBUTENYL AND TETRAETHYLENE

PENTAMINE. May produce an allergic reaction.

Hazard statements:

H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Response :

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

# SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) SYSTEM KEEP CLEAN DIESEL - 68912

P331 Do NOT induce vomiting.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents / container in accordance with local / regional / national /

international regulations



# 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures



# Composition:

dentification	Classification (EC) 1272/2008	Note	%
AS: 64742-47-8	GHS08		50 <= x % < 100
C: 926-141-6	Dgr		
REACH: 01-2119456620-43	Asp. Tox. 1, H304 EUH:066		
IVDDOCADDONE C14 C14	EUH.000		
IYDROCARBONS, C11-C14, I-ALKANES, ISOALKANES, CYCLICS,			
2% AROMATICS			
C: 918-811-1	GHS09, GHS07, GHS08		2.5 <= x % < 10
EACH: 01-2119463583-34	Dgr		2.5 <- X /0 < 10
EACH: 01-2119403303-34	Asp. Tox. 1, H304		
IYDROCARBONS, C10, AROMATICS,	STOT SE 3, H336		
1% NAPHTHALENE	Aquatic Chronic 2, H411		
1/0 NAFIIIIALENE	EUH:066		
	EUH.000		
:AS: 84605-20-9	GHS07		0 <= x % < 1
C: 617-593-2	Wng		
	Skin Irrit. 2, H315		
EACTION PRODUCTS WITH SUCCINIC	Skin Sens. 1, H317		
NHYDRIDE POLYISOBUTENYL AND			
ETRAETHYLENE PENTAMINE			
AS: 91-20-3	GHS07, GHS08, GHS09	[1]	0 <= x % < 1
C: 202-049-5	Wng	[2]	
	Carc. 2, H351		
IAPHTHALENE	Acute Tox. 4, H302		
	Aquatic Acute 1, H400		
	M Acute = 1		
	Aquatic Chronic 1, H410		
	M Chronic = 1		



## Specific concentration limits:

Specific concentration limits:				
Identification	Specific concentration limits	ATE		
EC: 918-811-1		oral: ATE = 6318 mg/kg BW		
REACH: 01-2119463583-34				
HYDROCARBONS, C10, AROMATICS,				
<1% NAPHTHALENE				



# Information on ingredients :

(Full text of H-phrases: see section 16)

- [1] Substance for which maximum workplace exposure limits are available.
- [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

# **SECTION 4: FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.



# 4.1. description of first aid measures In the event of exposure by inhalation:

In the event of an allergic reaction, seek medical attention.

Remove the victim to fresh air. If the symptoms persist, call a physician.

## In the event of splashes or contact with eyes :

Wash immediately and abundantly with water, including under the eyelids.



#### In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Immediately remove all soiled clothing.

Wash immediately and abundantly with soap and water.

# In the event of swallowing:

Do not give the patient anything orally.

Seek medical attention, showing the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the

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

No data available.

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

No data available.

#### **SECTION 5: FIREFIGHTING MEASURES**

Non-flammable.

## 5.1. Extinguishing media

## Suitable methods of extinction

Dry agent, foam, carbon dioxide.

## Unsuitable methods of extinction

High volume water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

# 5.3. Advice for firefighters

No data available.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

Spilled product may make surfaces slippery.

# For non first aid worker

Avoid any contact with the skin and eyes.

## For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

# 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

# 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

# 6.4. Reference to other sections

No data available

# **SECTION 7: HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

To be translated (XML)

No special precaution apart from the observance of hygiene rules

#### Fire prevention:

Never inhale this mixture.

Prevent access by unauthorised personnel.

Take precautionary measures against static discharges by bonding and grounding equipment.

No smoking.

# Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Ensure good ventilation at the workplace

## Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

Do not breathe fumes, vapour, spray.

# 7.2. Conditions for safe storage, including any incompatibilities

Store between 5°C and 40°C in a dry, well ventilated place.

Only use hydrocarbon-resistant containers, joints and pipes.

#### Storage

Keep out of reach of children.

Keep away from food and drink, including those for animals.

#### Packaging

Always keep in packaging made of an identical material to the original.

## 7.3. Specific end use(s)

No data available.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1. Control parameters



CAS

# Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

91-20-3	10 ppm	15 ppm		Skin; A4	
- Germany - AC	GW (BAuA - TRGS 90	00, 02/2022) :			
CAS	VME:	VME :	Excess	Notes	
01 20 3		0.4 nnm		4/1)	

Definition:

Criteria:

91-20-3		0.4 ppm		4(I)	
		2 mg/m3			
France (INIDC	Outile CE / 2024 40	40 0004 4760 doors	a af 00/40/2004) .		

Ceiling:

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

STEL:

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm :	VLE-mg/m3:	Notes:	TMP No:
91-20-3	10	50	-	-	C3	-

# Derived no effect level (DNEL) or derived minimum effect level (DMEL):

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 12.5 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 151 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 7.5 mg/kg body weight/day

# SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

SYSTEM KEEP CLEAN DIESEL - 68912

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects. DNEL: 7.5 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNEL: 32 mg of substance/m3

# 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

Personnel shall wear regularly laundered overalls.

#### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.



#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

Glove	0.38 mm
thickness:	
Break-through	> 480 mn
time:	

# - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

# - Respiratory protection

Breathing apparatus only when aerosol or spray are formed.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

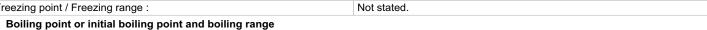
# Physical state Physical state : Colour

3	001041	
	Color:	Amber
1	Odam	

Fluid liquid.

Odour Odour threshold: Not stated.

#### Freezing point Freezing point / Freezing range : Not stated.



SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) SYSTEM KEEP CLEAN DIESEL - 68912	Version 1.3 (23-05-2024) - Page 6/1
Boiling point/boiling range :	Not relevant.
Flammability	
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	<u>'</u>
Explosive properties, lower explosivity limit (%):	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	60°C < FP <= 93°C
Auto-ignition temperature	<u>'</u>
Self-ignition temperature :	Not relevant.
Decomposition temperature	<u>'</u>
Decomposition point/decomposition range :	Not relevant.
рН	<u>'</u>
pH (aqueous solution):	Not stated.
рН :	Not relevant.
Kinematic viscosity	
Viscosity:	Not stated.
Viscosity:	$v < 7 \text{ mm2/s } (40^{\circ}\text{C})$
Solubility	
Water solubility :	Insoluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C):	Below 110 kPa (1.10 bar).
Density and/or relative density	
Density:	<1
Relative vapour density	
Vapour density :	Not stated.

The mixture does not contain nanoforms.

# 9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

# 9.2.2. Other safety characteristics

No data available.

# **SECTION 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity

No data available.

# 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

# 10.3. Possibility of hazardous reactions

No data available.

# 10.4. Conditions to avoid

Keep away from heat and from sources of ignition

Take precautionary measures against static discharges.

# 10.5. Incompatible materials

Strong oxidants

Acids

# 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

# **SECTION 11: TOXICOLOGICAL INFORMATION**



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

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

#### 11.1.1. Substances



# Acute toxicity :

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Oral route: LD50 = 6318 mg/kg bodyweight/day

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : 2,000 < LD50 <= 5000 mg/kg

Species: Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours): LC50 4688

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-47-8)

Oral route: LD50 > 5000 mg/kg

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 5000 mg/kg

Species: Rat

OECD Guideline 402 (Acute Dermal Toxicity)

#### 11.1.2. Mixture

#### Skin corrosion/skin irritation:

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.

# Respiratory or skin sensitisation:

Contains at least one sensitising substance. May cause an allergic reaction.

# Aspiration hazard:

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

"Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons."

May cause lung damage if swallowed



# 11.2. Information on other hazards

# Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 91-20-3: IARC Group 2B: The agent is possibly carcinogenic to humans.

# **SECTION 12: ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

# 12.1. Toxicity

# 12.1.1. Substances

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Fish toxicity: LC50 = 3 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

NOEC = 0.44 mg/l

Species: Oncorhynchus mykiss Duration of exposure: 28 jours

Crustacean toxicity: EC50 = 5 mg/l

Species : Daphnia magna

Duration of exposure: 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 0.77 mg/l Species : Daphnia magna Duration of exposure : 21 jours

Algae toxicity: ECr50 = 2 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 1 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

#### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

# 12.2. Persistence and degradability

#### 12.2.1. Substances

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-47-8)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

## 12.3. Bioaccumulative potential

No data available.

# 12.4. Mobility in soil

Not very mobile in soil.

The product is insoluble in water and will spread on the surface

## 12.5. Results of PBT and vPvB assessment

No data available.



# 12.6. Endocrine disrupting properties

No data available.



# 12.7. Other adverse effects

Do not dispose of the product in the natural environment, effluents or surface waters.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):



WGK 1 : Slightly hazardous for water.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

# 13.1. Waste treatment methods

Do not pour into drains or waterways.



# Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

# Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## **SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.



## 14.1. UN number or ID number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

# SECTION 15: Regulatory information

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



Classification and labelling information included in section 2: The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

# Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

# Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

https://echa.europa.eu/substances-restricted-under-reach.

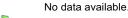


#### Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.



# Particular provisions:





# German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

WGK 1: Slightly hazardous for water.

# 15.2. Chemical safety assessment

No data available.



# SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

## Wording of the phrases mentioned in section 3:

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.



# Abbreviations and acronvms:

LD50: The dose of a test substance resulting in 50% lethality in a given time period.

LC50: The concentration of a test substance resulting in 50% lethality in a given period.

EC50: The effective concentration of substance that causes 50% of the maximum response.

ECr50: The effective concentration of substance that causes 50% reduction in growth rate.

NOEC: The concentration with no observed effect.

REACH: Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE: Acute Toxicity Estimate

BW: Body Weight

DNEL : Derived No-Effect Level

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit TWA : Time Weighted Averages

TMP : French Occupational Illness table TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).

GHS08: Health hazard

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.