

# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)



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

### 1.1. Product identifier

Product name : GDI CLEAN  
Product code : 38157

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

Additive

### 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.

### Other emergency numbers

BRAZIL : +55 11 3197 5891 / COLOMBIA : +57 1 508 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.

Acute inhalation toxicity, Category 4 (Acute Tox. 4, H332).  
Skin irritation, Category 2 (Skin Irrit. 2, H315).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).  
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 :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 203-234-3                      2-ETHYLHEXAN-1-OL

Hazard statements :

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

## Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of water  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor/...if you feel unwell.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

## Precautionary statements - Storage :

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 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)  $\geq 0.1\%$  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.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 104-76-7 EC: 203-234-3  2-ETHYLHEXAN-1-OL	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	[1]	50 $\leq$ x % < 100
CAS: 64742-47-8 EC: 265-149-8  DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	GHS08 Dgr Asp. Tox. 1, H304		2.5 $\leq$ x % < 10
CAS: 64742-94-5 EC: 919-284-0  SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.	GHS09, GHS07, GHS08 Dgr Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH:066		2.5 $\leq$ x % < 10
CAS: 64742-94-5 EC: 265-198-5 REACH: 01-2119463588-24  SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.	GHS09, GHS07, GHS08 Dgr Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411		2.5 $\leq$ x % < 10
CAS: 91-20-3 EC: 202-049-5  NAPHTHALENE	GHS07, GHS09, GHS08 Wng Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[1] [2]	0 $\leq$ x % < 1

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

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

## SECTION 4 : FIRST AID MEASURES

Seek medical attention immediately, showing the label.

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 massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.

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

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

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

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.

If the contaminated area 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.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

### 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 (CO<sub>2</sub>)

### 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 inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### 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.

Avoid contact with eyes.

No special precaution apart from the observance of hygiene rules

**Fire prevention :**

Handle in well-ventilated areas.

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.

Avoid inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Ensure good ventilation at the workplace

**Prohibited equipment and procedures :**

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

Do not use incompatible containers, joints and pipes.

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

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

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

**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****Occupational exposure limits :**

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
104-76-7	5.4	1	-	-	-

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
91-20-3	10 ppm	15 ppm		Skin; A4	

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
104-76-7		10 ppm 54 mg/m <sup>3</sup>		1(l)
91-20-3		0,1 ppm		1(l)

		0,5 E mg/m <sup>3</sup>				
- France (INRS - ED984 :2016) :						
CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
91-20-3	10	50	-	-	C3	-

## 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 with protective sides accordance with standard EN166.  
In the event of high danger, protect the face with a face shield.  
Prescription glasses are not considered as protection.  
Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.  
Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.  
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 thickness:	0.38 mm
Break-through time:	> 480 mn

Recommended properties :  
- Impervious gloves in accordance with standard EN374

#### - 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 to prevent skin contact.  
In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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

Avoid breathing vapours.  
If the ventilation is insufficient, wear appropriate breathing apparatus.  
When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.  
Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :  
- A1 (Brown)  
Breathing apparatus only when aerosol or spray are formed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### General information :

Physical state :	Fluid liquid.
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Color: Amber

**Important health, safety and environmental information**

pH :	Not relevant.
	82.00 °C.
Vapour pressure (50°C) :	Not relevant.
Density :	< 1
Water solubility :	Insoluble.

**9.2. Other information**

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 (CO<sub>2</sub>)**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Harmful by inhalation.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

**11.1.1. Substances****Acute toxicity :**

NAPHTHALENE (CAS: 91-20-3)

Oral route : LD50 = 500 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)

Oral route : LD50 > 15000  
Species : RatDermal route : LD50 > 3400 mg/kg  
Species : RatInhalation route (n/a) : LC50 > 13100 mg/l  
Species : Rat

Flash Point: 2-ETHYLHEXAN-1-OL (CAS: 104-76-7)

Oral route : LD50 = 2047 mg/kg  
Species : Rat  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)Dermal route : LD50 > 3000 mg/kg  
Species : Rat  
OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

Inhalation route (n/a) : LC50 = 11 mg/l  
Duration of exposure : 4 h

### 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.

#### Aspiration hazard :

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

May cause lung damage if swallowed

#### 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

2-ETHYLHEXAN-1-OL (CAS: 104-76-7)

Fish toxicity : LC50 = 17.1 mg/l  
Species : *Leuciscus idus*  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 39 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 11.5 mg/l  
Species : *Scenedesmus quadricauda*  
Duration of exposure : 72 h

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)  
Fish toxicity : LC50 = 10 mg/l  
Species : *Oncorhynchus mykiss*  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 10 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 4.6 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

NAPHTHALENE (CAS: 91-20-3)

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)  
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-ETHYLHEXAN-1-OL (CAS: 104-76-7)  
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. 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 vom 18/04/2017, KBws) :

WGK 2 : 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, preferably 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

-

### 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

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## 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. 2018/1480 (ATP 13)

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2019/521 (ATP 12)

#### - Container information:

No data available.

#### - Particular provisions :

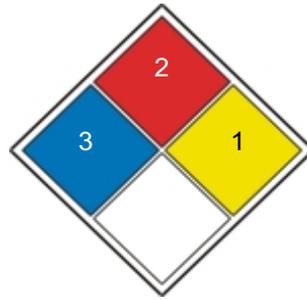
No data available.

#### - German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

#### - Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=3 Inflammability=2 Instability/Reactivity=1 Specific Risk=none



## 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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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 :

CMR: Carcinogenic, mutagenic or reprotoxic.

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 : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.