

GRAPHENE BOOSTER®**SAFETY DATA SHEET**

(REACH Regulation (EC) No 1907/2006 - No 453/2010)

HEADING 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product Name: GRAPHENE BOOSTER®

Product code: 001

1.2. Relevant identified uses of the substance or mixture and discouraged uses Motor additive**1.3. Information concerning the safety data sheet supplier**

ÉCO'PRISME - ZA Bayard - 3, Rue des Chambettes - 63570 AUZAT LA

COMBELLE Tel.: +33 4 22 52 18 20- Fax: +33 4 22 52 18 21 info@eco-prisme.com

www.eco-prisme.com

1.4. Emergency number: + 33 4 22 52 18 20Company/Organization: INRS / ORFILA <http://www.centres-antipoison.net>**HEADING 2: IDENTIFICATION OF HAZARDS****2.1. Classification of the substance or mixture****In accordance with Regulation (EC) No 1272/2008 and its adaptations.**

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Unclassified

2.2. Labeling elements**• Marking according to EEC Directives:**

Unclassified

Indications Child-resistant closure : No

From danger to touch : No

The mixture is used in spray form.

2.3. Additional information:

This mixture does not contain any substance evaluated as PBT or vPvB

2.4. Other hazards

NA

GRAPHENE BOOSTER®**SECTION 3: COMPOSITION/INFORMATION ON COMPONENTS****3.2. Mixtures Composition:**

Product/Component Name	Identifiers	%	Regulation (EC) No 1272/2008 [CLP]	Type
paraffinic distillates heavy (petroleum), hydrotreated	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7	≥60- ≤75	Asp. Tox. 1, H304	[1]
Trimers of 1-decene, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≤8	Asp. Tox. 1, H304	[1]
lubricating oils (petroleum), basis C15-30, neutral oil base, hydrotreatment	REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X	≤2	Asp. Tox. 1, H304	[1]
Lubricating oils (petroleum), C20 to 50, oil-based hydrotreated neutral	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≤2	Asp. Tox. 1, H304	[1]
bis(nonyl-phenyl)amine	REACH #: 01-2119488911-28 EC: 253-249-4	≤2	Aquatic Chronic 4, H413	[1]

Type

- [1] Substance classified as a danger to health or the environment
- [2] Substance with a limit of exposure at the workstation
- [3] The substance fulfills the criteria for TBP according to Regulation (EC) No 1907/2006, Annex XIII
- [4] The substance fulfills the tPtB criteria according to Regulation (EC) No 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Supplementary Disclosure under Corporate Policy

Occupational exposure limits, where available, are listed in Section 8.

HEADING 4: FIRST AID

In general, if in doubt or if symptoms persist, always seek medical attention. NEVER have an unconscious person ingest anything.

4.1. Description of first aid

Inhalation: Carry the victim outside and keep them resting in a position where they can breathe comfortably. Seek medical attention if symptoms develop. If decomposition products are inhaled during a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours. Transport the victim in fresh air, to a quiet place, and if necessary call a doctor.

Skin contact: Wash the skin thoroughly with soap and water or use a recognized skin cleanser. Remove contaminated clothing and shoes. Seek medical attention if symptoms develop.

Eye contact: Rinse eyes immediately with plenty of water, occasionally lifting the upper and lower eyelids. Check whether the victim is wearing contact lenses and, if so, remove them. In case of irritation, consult a doctor.

Ingestion: Rinse your mouth with water. Take the victim outside and keep them resting in a position where they can breathe comfortably. If a person has swallowed this product and is conscious, have them drink small amounts of water. Do not induce vomiting unless instructed otherwise by medical personnel. Seek medical attention if symptoms develop. DO NOT induce vomiting. If swallowed, seek medical advice immediately

GRAPHENE BOOSTER®

show the package or label. Wash thoroughly with clean fresh water for several minutes in keeping the eyelids apart.

Protection of rescuers : No initiative should be taken that involves an individual risk or in the absence thereof of appropriate training

4.2. Main symptoms and effects, acute and delayed

Non-hazardous product

Eye contact: Splashing in the eyes can cause irritation.

4.3. Indication of any immediate medical care and special treatment required

Symptomatic treatment.

HEADING 5: FIRE-FIGHTING MEASURES

Non-flammable.

5.1. Extinguishing means Appropriate means of extinguishing

In case of fire, use:

- powder, alcohol resistant foam, water spray, carbon dioxide

Inappropriate means of extinguishing

In the event of fire, do not use:

- Water jet

Hazardous decomposition products in the event of fire:

- Incomplete combustion releases dangerous carbon monoxide, carbon dioxide, and other toxic gases.

5.2. Particular hazards arising from the substance or mixture

Fire hazard: /.

Explosion hazard: /.

Hazardous decomposition products in case: Incomplete combustion releases hazardous carbon monoxide, fire carbon dioxide and other toxic gases

5.3. Advice to firefighters

Special protection measures for firefighters: In the event of a fire, quickly locate the site by evacuating anyone near the accident site. No initiative should be taken that involves an individual risk or in the absence of appropriate training.

Special protective equipment for fire-fighting personnel: Firefighters shall wear appropriate protective equipment and a self-contained breathing apparatus with full face mask operating in positive pressure mode. Firefighter clothing (including helmets, protective boots and gloves) complying with European Standard EN 469 provides a basic level of protection against chemical accidents.

SECTION 6: MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL DISPERSION**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate the spill area.

Avoid contact with skin and eyes. Refer to the protective measures listed in sections 7 and 8.

For non-rescuers

No initiative should be taken that involves an individual risk or in the absence of appropriate training. Evacuate the surroundings. Prevent access to persons not required and not wearing protective clothing. Do not touch or walk in the spilled product. Wear suitable personal protective equipment.

For rescue workers

If specific clothing is required to treat the spill, refer to Section 8 for appropriate and inappropriate materials. See also the information in "For Non-Rescuers".

6.2. Precautions for environmental protection

Contain and collect leaks with non-combustible absorbent materials, e.g. sand, soil, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any penetration into sewers or waterways.

6.3. Containment and cleaning methods and equipment

Small spill: Stop the leak if it is safe to do so. Move containers out of the zone accidental spill. Dilute with water and soak up if the material is soluble in water. Otherwise, or if the material is insoluble in water, absorb with an inert dry material and place in a suitable waste container. Disposal by an authorized waste collection company.

Large accidental spill: Stop the leak if it is safe to do so. Move containers away from the accidental spill area. Prevent any possible entry into sewers, waterways, cellars or confined areas.

GRAPHENE BOOSTER®

Wash the spilled product in an effluent treatment plant or proceed as follows. Contain leaks and collect them using non-combustible absorbent materials such as sand, soil, vermiculite, diatomaceous earth. Then place them in a disposal container in accordance with local regulations. Disposal by an authorized waste collection undertaking.

6.4. Reference to other headings

See section 1 for emergency contact details.

See Section 8 for information on suitable personal protective equipment.

See Section 13 for additional information on waste treatment.

SECTION 7: HANDLING AND STORAGE

The requirements for storage rooms shall apply to workshops where the mixture is handled.

7.1. Precautions for safe handling

Wash hands after each use.

Remove and wash contaminated clothing before reuse.

Avoid contact with skin and eyes.

Fire prevention:

Deny access to unauthorized persons.

Recommended equipment and procedures:

For individual protection, see section 8.

Observe label precautions and labor protection regulations.

Avoid contact of the mixture with the eyes.

Prohibited equipment and procedures:

Smoking, eating and drinking are forbidden in the premises where the mixture is used.

7.2. Conditions for safe storage, including possible incompatibilities

Storage conditions: Keep the container tightly closed. Store in a dry, cool, ventilated place.

Storage temperature: 20 (5 -25) °C

Prohibitions on joint storage: /.

Packaging

Always store in packages of the same material as the original one.

7.3. Specific end-use(s)

No data is available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

No data

Occupational exposure limits No known exposure limit values.

While specific SMPs may be indicated for some components in this section, other components may be present in any release of fog, steam or dust. Therefore, specific SMPs may not apply to the product as a whole and are provided for information only.

Recommended monitoring procedures If this product contains ingredients with exposure limits, it may be necessary to conduct a follow-up examination of persons, the atmosphere in the workplace or living organisms to determine the effectiveness of ventilation or other control measures or to assess the need for respiratory protective equipment. Reference should be made to monitoring standards, such as: European Standard EN 689 (Workplace Atmospheres - Guidance for the assessment of exposure to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace Atmospheres - Guide for the application and use of procedures and devices for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace Atmospheres - General requirements for the performance of methods of measuring chemical agents) Reference is also required to national technical guides on methods for the determination of hazardous substances.

No Derived Effect Level : No DNEL/DMEL available.

Predicted no-effect concentration : No PNEC available.

8.2. Exposure controls

Appropriate technical controls : Provide reinforced ventilation or other built-in security to maintain the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals must be evaluated

GRAPHENE BOOSTER®

the health risks they pose in order to ensure that exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. roadworthiness tests) have been adequately evaluated. Personal protective equipment must comply

be suitable for use, maintained in good condition and properly maintained. It is important to consult your personal protective equipment supplier for the selection of equipment and appropriate standards. For more information about standards, contact your national organization. The final choice of protective equipment depends on the risk assessment. It is important to ensure that all parts of personal protective equipment are compatible.

Personal protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemicals, before eating, smoking, going to the toilet and at the end of the working day. Appropriate techniques are recommended to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Ensure that automatic eye-rinses and safety showers are close to the workstation location.

Eye/face protection: Use eye protection according to an approved standard when a risk assessment indicates the need to avoid exposure to spills, fine particles, sprays, gases or dust. If contact is possible, wear the following unless the assessment indicates a higher degree of protection: safety glasses with side guards.

Skin protection

Hand protection: General information:

As specific work environments exist and materials handling practices vary, safety procedures should be defined for each intended application. The correct choice of protective gloves depends on the chemicals handled and the conditions of work and use. Most gloves provide protection only for a limited amount of time before they need to be discarded and replaced (even the best chemical-resistant gloves break through after repeated exposure to chemicals).

Gloves should be chosen in consultation with the supplier or manufacturer and this choice should take into account a full evaluation of working conditions.

Recommended: nitrile gloves.

Breakthrough Time:

The piercing time data is generated by the glove manufacturers under laboratory test conditions and represents the length of time a glove can be expected to provide effective resistance against permeability. It is important, when following piercing duration recommendations, that actual workplace conditions be taken into account. Always consult your gloves supplier for up-to-date technical information on puncture times for the recommended type of gloves.

Our recommendations for the choice of gloves are:

Continuous contact:

Glove with a minimum piercing time of 240 minutes or more than 480 minutes if suitable gloves can be found. If suitable gloves offering this level of protection are not available, gloves with shorter piercing times may be suitable if suitable maintenance and replacement regimes for gloves are defined and followed.

Short-term protection / against splashing:

The recommended piercing times are as recommended above. It is recognized that for short-term and transient exposures, gloves with shorter piercing times may be commonly used. To this end, appropriate maintenance and replacement schemes must be determined and scrupulously followed.

Glove thickness:

For general applications, we recommend gloves with a thickness generally greater than 0.35 mm.

It should be emphasized that the thickness of the gloves is not necessarily a good means of predicting the resistance of the gloves to a particular chemical, since the effectiveness of a glove against penetration will depend on the exact composition of the glove material. The choice of glove should therefore be based on consideration of the requirements of the task and knowledge of the

failure times of the glove manufacturer, glove type and glove model. The manufacturer's technical data must therefore always be taken into account to ensure the choice of the glove most appropriate for a given task.

Note: Depending on the activity, gloves of different thicknesses may be required for particular tasks. For example:

- Thinner gloves (up to 0.1 mm or less) may be required when a high degree of manual dexterity is required. However, these gloves are more likely to provide short-term protection and should normally be used for a single use only and then discarded.
- Thicker gloves (up to 3 mm or more) may be required when there is a mechanical risk (as well as a chemical risk),

i.e. in case of potential abrasion or perforation

Body protection : The use of protective clothing is in line with good industrial practices.

Personal protective equipment for the body will have to be chosen according to the task to be performed as well as the risks

L.E.D.

GRAPHENE BOOSTER®

incurred, and it is recommended to have it validated by a specialist before handling the product.

Cotton or polyester/cotton working bruises will only protect against light surface contamination that will not reach the skin. Work bruises should be washed regularly. When the risk of dermal exposure is high (e.g. when cleaning up spills or when there is a risk of splashing), it is then necessary to use chemical resistant aprons and/or protective suits and boots against chemical and waterproof agents.

Refer to standards: Respiratory protection: EN 529

Gloves: EN 420, EN 374

Eye protection: EN 166

Filter half mask: EN 149

Half filter mask with valve: EN 405

Half mask: EN 140 plus filter

Full mask: EN 136 plus filter

Particulate filters: EN 143

Gas filters/combination: EN 14387

Environmental protection exposure controls:

It is important that emissions from ventilation systems or manufacturing equipment to ensure they comply with the requirements of environmental protection legislation. In some cases, it will be necessary to equip the manufacturing equipment with a gas scrubber or filter or to modify it technically in order to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on essential physical and chemical properties

General information

Physical State: Dark gray to black liquid

Important health, safety and environmental information

pH:	NC
Density:	0.87
Boiling point/range:	100°C
Vapor pressure (50°C):	23kPa
Density:	1,005
Water solubility:	Insoluble.
Flash point:	Cleveland 234° Open Cut
Merge point/interval:	Not concerned.
Auto-ignition point/interval:	Not concerned.
Decomposition point/interval:	Not concerned.

9.2. Other information

HEADING 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not dangerous.

10.2. Chemical stability

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

10.3. Possibility of dangerous reactions

No known dangerous reaction under normal conditions of use.

10.4. Conditions to be avoided

Avoid contact with hot surfaces.

10.5. Incompatible materials

No data.

10.6. Hazardous decomposition products

No hazardous decomposition products should be generated under normal conditions of storage and use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

GRAPHENE BOOSTER®

Acute toxicity: Not available.

Information on likely routes of exposure: Likely routes of entry: dermal route, inhalation.

Potential acute health effects

Inhalation Exposure to decomposition products may pose health risks. The effects may be deferred.

Ingestion No significant effects or critical hazards known.

Contact with skin Degreases skin. May eventually cause dryness and irritation of the skin.

Eye contact No known significant effects or critical hazards.

Symptoms related to physical, chemical, and toxicological characteristics

Skin contact Adverse symptoms may include the following:

irritation

dryness

chapping

Ingestion No specific data.

Inhalation No specific data.

Eye contact No specific data.

Delayed, immediate and chronic effects of short- and long-term exposure

Inhalation Overexposure to inhalation of airborne droplets or aerosols may irritate the airways.

Ingestion Ingesting large amounts can cause nausea and diarrhea.

Contact with the skin Prolonged or repeated contact may lead to drying of the skin and irritation or dermatitis.

Contact with the eyes Potential risk of pricking or transient redness from accidental eye contact.

Potential chronic health effects**General**

The combustion **USED ENGINE OILS** products resulting from the operation of the engines pollute the oils during use. The waste oils that are derived from them can cause skin cancer, especially when prolonged or frequent contact is accompanied by poor body hygiene conditions. Therefore, prolonged or frequent contact with motor oils of any type or brand must be avoided. Impeccable conditions of personal hygiene must be observed.

Carcinogenicity No significant effects or critical hazards known.

Mutagenicity No significant effects or critical hazards known.

Developmental Effects No significant effects or critical hazards are known.

Effects on fertility No significant effects or critical hazards known.

HEADING 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

This product is not considered toxic to aquatic organisms and does not cause long-term adverse effects environmental term.

12.2. Persistence and degradability Unclassified

12.3. Bioaccumulation potential

12.4. Mobility in soil No additional information available

12.5. Results of PBT and vPvB assessments: The mixture does not meet the criteria for PBT or vPvB mixtures, in accordance with Annex XIII to REACH Regulation (EC) No 1907/2006.

12.6. Other ecological information Spills of this product may form a film on the surface of the water, causing physical damage to aquatic organisms and potentially disrupting oxygen transfer.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate management of the waste from the mixture and/or its container shall be determined in accordance with the provisions of Directive 2008/98/EC.

13.1. Waste treatment methods

Dispose of the contents/container according to the approved collector's instructions. Do not discharge into sewers or waterways.

Waste:

GRAPHENE BOOSTER®

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

Recycle or dispose of in accordance with local requirements, preferably by a collector or an approved company. Do not contaminate soil or water with waste, do not dispose of it in the environment.

Hazardous Waste Yes

European Waste Catalog

Waste Code	Designation of waste
13 02 08*	other engine, gearbox and lubrication oils

Soiled packaging:

Disposal methods Whenever possible, ensure that the product is recycled. Disposal of large quantities must be carried out by duly authorized specialists.

Special precautions Dispose of this product and its container only in a safe manner. Empty containers or internal tarpaulins may retain product remnants. Avoid dispersal of spilled materials, as well as spillage and contact with soil, waterways, sewers, and drainage pipes.

References Commission 2014/955/EU Directive
2008/98/CEV

HEADING 14: TRANSPORT INFORMATION

14.1. UN Number No classification

14.2. Official UN Transport Designation No classification

14.3. Transport hazard class(es) No classification

IMDG

IATA

RID

Transport hazard class(es) (RID): /

Hazard labels (RID): /

14.4. Packing group No classification

14.5. Environmental hazards

Dangerous for the environment: No

Marine pollutant: No

Other information: No additional information available **14.6.**

- **Land transport** No classification

- **Maritime transport**

Unclassified

- **Air transport** (IATA) No

classification

- **Inland waterway**

transport No classification

- **Rail transport** No

classification

14.7. Bulk transport in accordance with Annex II to MARPOL 73/78 and the IBC Code Pollution category: /

HEADING 15: REGULATORY INFORMATION

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

15.1.1. EU regulations

Does not contain substances subject to restrictions according to Annex XVII of REACH

Does not contain substances from the REACH candidate list

Does not contain any substances listed in Annex XIV of REACH

15.1.2. National Directives

No data is available.

15.2. Chemical safety assessment

No chemical safety assessment has been performed

GRAPHENE BOOSTER®