

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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Blend Version: 14

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

1.1. Product identifier

Product name Product code : Restore Motor Cleaner

: S10464

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

1.2.1. Relevant identified uses

: Treatment for the cleaning of oil circuits

1.2.2. Uses advised against

Use of the substance/mixture

No additional information available

1.3. Details of the supplier of the safety data sheet

Groupe Restore - Biral N.V. Rue de l'Echauffourée 1 7700 MOESKROEN (MOUSCRON) - België T +32 (0)56 33 38 40 - F +32 (0)56 33 38 07 biral.lubricants@laposte.net - www.biral-lubricants.be

1.4. Emergency telephone number

Emergency number

: BIG: 0032 (0)14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

Full text of hazard classes and H-statements : see section 16

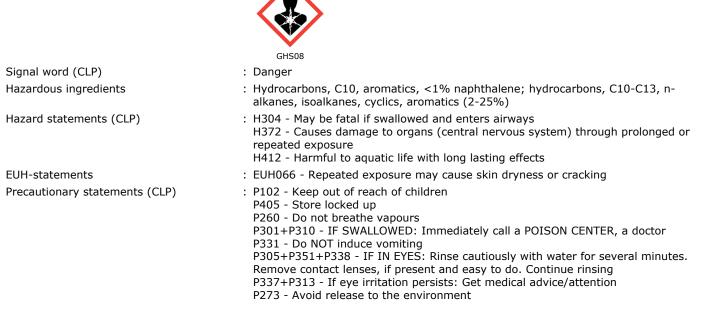
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Detergent Regulation : Labelling of contents: (Regulation (EC) No. 648/2004 of 31 March 2004 on detergents):

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Component

aromatic hydrocarbons non-ionic surfactants

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. **Mixture**

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	(EC no) 919-164-8 (REACH-no) 01-2119473977-17	50 - 75	STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Hydrocarbons, C10, aromatics, <1% naphthalene	(EC no) 918-811-1 (REACH-no) 01-2119463583-34	10 - 25	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Amides, C16-18 and C18-unsatd., N,N- bis(hydroxyethyl)	(CAS No) 68603-38-3 (EC no) 271-653-9 (REACH-no) 01-2119951823-33	2,5 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Naphthalene	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2 (REACH-no) 01-2119561346-37	0,1 - 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

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4.1. Description of first aid m	easures
First-aid measures general	: Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.
First-aid measures after inhalation	 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/injuries after ingestion : Risk of aspiration pneumonia. May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. AFFF foam. ABC-powder.
5.2. Special hazards arising fro	om the substance or mixture
Fire hazard	: Combustible liquid. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.
Explosion hazard	: Product is not explosive.

% 5-15% <5%

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5.3. Advice for firefighters	
Firefighting instructions	: Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, prot	ective equipment and emergency procedures
General measures	: Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	I
Protective equipment	: Wear suitable gloves and eye/face protection. protective clothing.
Emergency procedures	: Mark the danger area. Large spills/in enclosed spaces: compressed air apparatus. Prevent flow to low areas. Take off contaminated clothing and wash before reuse.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions	5

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up For containment : Collect spillage. Contain leaking substance, pump over in suitable containers. Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

: Ensure good ventilation of the work station. Meet the legal requirements. Repeated exposure may cause skin dryness or cracking. Presents no particular risk when handled in accordance with good occupational hygiene practice.	
: Use good personal hygiene practices. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.	
, including any incompatibilities	
: Does not require any specific or particular technical measures.	
: Protect from sunlight. Store in a well-ventilated place. Meet the legal requirements.	
: Meet the legal requirements. Ventilation along the floor.	
: Store in a closed container. correctly labelled.	

7.3. Specific end use(s)

See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Belgium Limit value (mg/m ³) 533 mg	/m³
Belgium Limit value (ppm) 100 ppr	n
Italy - Portugal - USA ACGIH TWA (ppm) 100 ppr ACGIH	n
Hydrocarbons, C10, aromatics, <1% naphthalene	
BelgiumLimit value (mg/m³)200 mg	/m³
Naphthalene (91-20-3)	
EU IOELV TWA (mg/m ³) 50 mg/	m³
EU IOELV TWA (ppm) 10 ppm	
BelgiumLimit value (mg/m³)53 mg/	m³
Belgium Limit value (ppm) 10 ppm	
BelgiumShort time value (mg/m³)80 mg/	m³
BelgiumShort time value (ppm)15 ppm	

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Naphthalene (91-20-3)	
Belgium Remark (BE)	D
Hydrocarbons, C10, aromatics, <1% r	naphthalene
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	151 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	7,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	32 mg/m ³
Long-term - systemic effects, dermal	7,5 mg/kg bodyweight/day
Amides, C16-18 and C18-unsatd., N,N	-bis(hydroxyethyl) (68603-38-3)
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation DNEL/DMEL (General population)	73,44 mg/m ³
Long-term - systemic effects,oral	6,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21,73 mg/m ³
Long-term - systemic effects, dermal	2,5 mg/kg bodyweight/day
PNEC (STP)	
PNEC sewage treatment plant	0,83 mg/l
Distillates (petroleum), solvent-dewa	xed heavy paraffinic, Baseoil - unspecified (64742-65-0)
PNEC (Oral)	
PNEC oral (secondary poisoning)	9,33 mg/kg food
2,2'-iminodiethanol (111-42-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,13 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0,06 mg/kg bodyweight/day
Long-term - systemic effects, dermal	0,07 mg/kg bodyweight/day
Long-term - local effects, inhalation PNEC (Water)	0,25 mg/m ³
PNEC aqua (freshwater)	0,0156 mg/l
PNEC aqua (marine water)	0,00156 mg/l
PNEC aqua (intermittent, freshwater)	0,097 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0718 mg/kg dwt
PNEC sediment (marine water)	0,00718 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,00518 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1,04 mg/kg food
PNEC (STP) PNEC sewage treatment plant	100 mg/l
	100 mg/n
Naphthalene (91-20-3) DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3,57 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	25 mg/m ³
Long-term - local effects, inhalation	25 mg/m ³
PNEC (STP)	
PNEC sewage treatment plant	2,9 mg/l
8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

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Personal protective equipment

: Gloves. Safety glasses.



Hand protection

Other information

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only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

: Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not

: Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
Appearance	: clear.
Colour	: light yellow.
Odour	: characteristic.
Odour throshold	 No data available

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Odour threshold	:	No data available
pH	:	
Relative evaporation rate (butylacetate=1)	:	No data available
refraction index	:	1,466
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	62 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density @20°C	:	838 kg/m ³
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic @40°C	:	2,5 mm²/s
Viscosity, dynamic @40°C	:	No data available
Viscosity	:	
Viscosity Index	:	
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available
9.2. Other information		

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VOC content
Other properties
Additional information

: 71,5 %

- : Dimethylsulfoxide (DMSO) <3%.
 - : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Acute toxicity	: Harmful: may cause lung damage if swallowed
hydrocarbons, C10-C13, n-alkanes,	isoalkanes, cyclics, aromatics (2-25%)
LD50 oral rat	> 15000 mg/kg
LD50 dermal rabbit	> 3400 mg/kg
LC50 inhalation rat (mg/l)	> 13,1 mg/l/4h
Hydrocarbons, C10, aromatics, <1%	o naphthalene
LD50 oral rat	6318 mg/kg bodyweight Crl:CDBR
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l)	> 4,688 mg/l/4h Sprague-Dawley
ATE CLP (oral)	6318,000 mg/kg bodyweight
Amides, C16-18 and C18-unsatd., N	,N-bis(hydroxyethyl) (68603-38-3)
LD50 oral rat	> 3000 mg/kg bodyweight
Naphthalene (91-20-3)	
LD50 oral rat	> 2000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat	> 2500 mg/kg bodyweight Sherman
ATE CLP (oral)	500,000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.

12.1. Toxicity		
Ecology - general	: This product contains hazardous components for the aquatic environment.	
Ecology - water	: Harmful to aquatic life with long lasting effects.	
Hydrocarbons, C10, aromatics, <1	% naphthalene	
LC50 fish 1	96h 2 - 5 mg/l Oncorhynchus mykiss	
EC50 Daphnia 1	48h 10 mg/l Daphnia magna	
EC50 other aquatic organisms 1	72h 1 - 3 mg/l Pseudokirchneriella subcapitata	
Amides, C16-18 and C18-unsatd.,	N,N-bis(hydroxyethyl) (68603-38-3)	
LC50 fish 1	96h 1,2 mg/l oncorhynchus mykiss	
NOEC (acute)	72h 2 mg/l Desmodesmus subspicatus	
NOEC (chronic)	> 0,01 (≤ 0,1) mg/l @21d daphnia magna	
Naphthalene (91-20-3)		
LC50 fish 1	96h 1,6 mg/l Oncorhynchus mykiss	
EC50 Daphnia 1	48h 2,16 mg/l Daphnia magna	
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12.2. Persistence and degradability

Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)

Persistence and degradability

biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment method	is		
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.		
European List of Waste (LoW) code	 18 01 06* - chemicals consisting of or containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances 		

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards Other information

: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 71,5 %

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15.1.2. National regulations

Water hazard class (WGK)

: 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
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
H412	Harmful to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product