Safety Data Sheet
according to WHS Regulations

Printing date 02.02.2024 Version number 4.1 Revision: 02.05.2022

*
1 Identification

· **Product identifier**

· **Trade name: SYSTEM GUARD**

· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the mixture**
Gasoline additive
Only for proper handling.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**

MOTOREX AG
Bern–Zürich–Strasse 31, Postfach
CH–4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

A1 Accessory Imports
60-62 Burchill St.
Loganholme
4129 QLD
Australia
Phone : 07 3451 1300

· **Further information obtainable from:** msds@motorex.com
· **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

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2 Hazard(s) Identification

· **Classification of the substance or mixture**

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Serious eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Hydrocarbons, C10, aromatics, >1% naphthalene
Hydrocarbons, C9, aromatics
diethylbenzene
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

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· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥50-≤70%
EC number: 926-141-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Asp. Tox. 1, H304; Flam. Liq. 4, H227	25-50%
EC number: 919-284-0	Hydrocarbons, C10, aromatics, >1% naphthalene Carc. 2, H351	≥1-<2.5%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	naphthalene Flam. Sol. 2, H228; Carc. 2, H351; Acute Tox. 4, H302	≥0.1-<0.25%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**	
aliphatic hydrocarbons	≥30%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Remove residues with soap and water.
Remove contaminated clothing immediately.
Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:**
Do not induce vomitting. Do not take in resorption stimulating agents.
Consult a physician who will decide on need and method of emptying the stomach.

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· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Emergency Action Code / HazChem-Code** •2YE
· **Protective equipment:** No special measures required.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤50°C
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Storage class:** 3
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

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· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

WES	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm

91-20-3 naphthalene

WES	Short-term value: 79 mg/m³, 15 ppm Long-term value: 52 mg/m³, 10 ppm

· **DNELs**

67-63-0 propan-2-ol

Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	888 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	319 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	500 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	89 mg/m3 (consumer)

91-20-3 naphthalene

Dermal	DNEL / Workers / Systemic effects / Long-term	3.57 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	25 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	25 mg/m3 (worker)

· **PNECs**

67-63-0 propan-2-ol

Oral	PNEC / Predators / Secondary poisoning	160 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	140.9 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	140.9 mg/l (aquatic organisms)
	PNEC/Aquatic org/intermittent releases(freshwater)	140.9 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	2,251 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	552 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	552 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	28 mg/kg (terrestrial organisms)

91-20-3 naphthalene

	PNEC / Aquatic organisms / Freshwater	0.0024 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.0024 mg/l (Bioaccumulation)
	PNEC/Aquatic org/intermittent releases(freshwater)	0.02 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	2.9 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.0672 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.0672 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	0.0533 mg/kg (terrestrial organisms)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Not necessary if room is well-ventilated.
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

safety goggles

· **Body protection:** *Protective work clothing*

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9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	*Fluid*
· **Colour:**	*Yellow*
· **Odour:**	*Alcohol-like*
· **Odour threshold:**	*Not determined.*
· **pH-value:**	*Not determined.*
· **Change in condition**	
· **Melting point/freezing point:**	*Undetermined.*
· **Initial boiling point and boiling range:**	*82 °C (DIN EN ISO 3405)*
· **Flash point:**	*16 °C*
· **Flammability (solid, gas):**	*Highly flammable.*
· **Auto-ignition temperature:**	*425 °C (DIN 51794)*
· **Decomposition temperature:**	*Not determined.*
· **Explosive properties:**	*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
· **Explosion limits:**	
· **Lower:**	*2 Vol %*
· **Upper:**	*12 Vol %*
· **Vapour pressure at 20 °C:**	*43 hPa*
· **Density at 20 °C:**	*0.79 g/cm³ (ASTM D 4052)*
· **Relative density**	*Not determined.*
· **Vapour density**	*Not determined.*
· **Evaporation rate**	*Not determined.*

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· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
· **Dynamic:**	Not determined.
· **Kinematic:**	< 3 mm²/s @ 40 °C (DIN 51562-1)
· **Other information**	No further relevant information available.

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
67-63-0 propan-2-ol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
	NOAEC	5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics		
Oral	LD50	5,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	5.28 mg/l (rat)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (rat)
91-20-3 naphthalene		
Oral	LD50	533-710 mg/kg (mouse)
	NOEL	100 mg/kg/24h (rat)
	NOAEL	100-200 mg/kg/24h (mouse)
		200 mg/kg/24h (rat)
	LOAEL	400 mg/kg/24h (rat)
Dermal	LD50	2,500-16,000 mg/kg (rat)
	NOEL	300 mg/kg/24h (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Inhalative	LC0 / 4h	77.7 ppm (rat)
	LC50 / 4h	77.7 ppm (rat)

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	LC50 / 4h	400 mg/m3 (rat)
	NOAEL	300 mg/m3 (rat)
	NOAEC	1 ppm (rat)
	LOAEC	2-10 ppm (rat)
	LOAEC	11 mg/m3 (rat)
	NOEC	0.1 ppm (rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** May cause drowsiness or dizziness.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** May be fatal if swallowed and enters airways.

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
67-63-0 propan-2-ol	
LC50	9.64-10 mg/l/96h (fish)
LC50	10,000 mg/l/24h (aquatic invertebrates)
EC50	10,000 mg/l/24h (aquatic invertebrates)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	
LL50	2-5 mg/l/96h (fish)
LL50	2-5 mg/l/48h (fish)
LL50	5-17 mg/l/24h (fish)
EL50	1.4 mg/l/48h (aquatic invertebrates)
EL50	4.6 mg/l/24h (aquatic invertebrates)
	1-3 mg/l/24h (algae / cyanobacteria)
EL50	1-3 mg/l/72h (algae / cyanobacteria)
EL50	0.81-0.89 mg/l/21d (aquatic invertebrates)
NOELR	1.22 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)
91-20-3 naphthalene	
LC50	1.6-7.9 mg/l/96h (fish)
LC50	6.35 mg/l/48h (fish)
LC50	6.08 mg/l/72h (fish)
LC50	2.4-7.76 mg/l/24h (fish)
EC50	0.4-0.5 mg/l/72h (algae / cyanobacteria)
EC50	2.16 mg/l/48h (aquatic invertebrates)

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**

· **Bioaccumulative potential**	
67-63-0 propan-2-ol	
Partition coefficient	0.05 [---] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)

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91-20-3 naphthalene	
Partition coefficient	3.4 [---] (log Kow) (Bioaccumulation)
Biodegradability	>74 % (28d) (Biodegradability) (OECD 301 C)

· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water
Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packaging:**
· **Recommendation:**
Disposal must be made according to official regulations.
Discharged containers can contain flammable or explosive vapours.

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14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	UN1219
· **UN proper shipping name**	
· **ADG**	1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
· **IMDG, IATA**	ISOPROPANOL (ISOPROPYL ALCOHOL)
· **Transport hazard class(es)**	
· **ADG**	
· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG, IATA**	
· **Class**	3 Flammable liquids.

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· **Label**	3
· **Packing group** · **ADG, IMDG, IATA**	II
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user** · **Hazard identification number (Kemler code):** · **EMS Number:** · **Stowage Category**	Warning: Flammable liquids. 33 F-E,S-D B
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADG** · **Limited quantities (LQ)** · **Excepted quantities (EQ)** · **Transport category** · **Tunnel restriction code**	 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
· **IMDG** · **Limited quantities (LQ)** · **Excepted quantities (EQ)**	 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**	
67-63-0	propan-2-ol
95-63-6	1,2,4-trimethylbenzene
91-20-3	naphthalene
104-76-7	2-ethylhexan-1-ol
108-67-8	mesitylene
27859-58-1	(Tetrapropenyl)bernsteinsäure
25155-15-1	Cymol
64742-94-5	Solvent naphtha (petroleum), heavy arom.
29190-28-1	2,4-bis(xylylazo)resorcinol
91-20-3	naphthalene

· **Standard for the Uniform Scheduling of Medicines and Poisons**		
91-20-3	naphthalene	S6, S10
91-20-3	naphthalene	S6, S10

· **Australia: Priority Existing Chemicals**
None of the ingredients is listed.

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· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** *None of the ingredients is listed.*
· ***Seveso category*** *P5c FLAMMABLE LIQUIDS*
· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** *5,000 t*
· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** *50,000 t*

· ***Chemical safety assessment:*** *A Chemical Safety Assessment has been carried out.*

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.
No special training instructions to ensure protection of human health and environment are required.

· ***purity requirement***
· ***Relevant phrases***
H225 Highly flammable liquid and vapour.
H227 Combustible liquid.
H228 Flammable solid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

· ***Department issuing SDS:*** *Abteilung Produktsicherheit*
· ***Contact:***
· ***Abbreviations and acronyms:***
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 4: Flammable liquids – Category 4
Flam. Sol. 2: Flammable solids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
· **** Data compared to the previous version altered.***