

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 3/18/2021 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Shell Brake & Clutch Cleaner

Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture : vehicle maintenance

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Kemetyl Kimya San.Tic.Ltd.Şti.

Küçükbakkalköy Mahallesi Dereboyu Caddesi No:3A Brandium AVYM R/5 Blok K:13 D:82

Ataşehir, İstanbul

T +90-216 455 1641 - 42

salesKTR@kemetyl.com - www.kemetyl.com.tr

1.4. Emergency telephone number

Country	Organisation/Compa ny	Address	Emergency number	Comment
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;

H229

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

Reproductive toxicity, Category H361

2

Specific target organ toxicity — H336

Single exposure, Category 3,

Narcosis

Specific target organ toxicity — H373

Repeated exposure, Category 2

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Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. Toxic to aquatic life with long lasting effects. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)









GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : propan-2-ol; isopropyl alcohol; isopropanol; n-hexane

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated

exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at

hand.

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P271 - Use only outdoors or in a well-ventilated area.

Child-resistant fastening : Not applicable Tactile warning : Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index-No.) 601-037- 00-0 (REACH-no) 01- 2119480412-44	75 – 90	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117- 00-0 (REACH-no) 01- 2119457558-25	1 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
CARBON DIOXIDE	(CAS-No.) 124-38-9 (EC-No.) 204-696-9		Press. Gas (Comp.), H280

Specific concentration limits:

Name	Product identifier	Specific concentration limits
n-hexane	(CAS-No.) 110-54-3	(5 ≤C < 100) STOT RE 2, H373
	(EC-No.) 203-777-6	
	(EC Index-No.) 601-037- 00-0	
	(REACH-no) 01- 2119480412-44	

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye : Rinse cautiously with water for several minutes. Remove contact contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. If swallowed: rinse

mouth. Do NOT induce vomiting.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin : Irritation.

contact

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Symptoms/effects after eye contact: Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry powder. Dry powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with

skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

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

protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters

sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal

protective equipment. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Avoid contact with

skin and eyes.

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Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or

smoke when using this product. Always wash hands after handling

the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50

°C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep

container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
Germany	Occupational exposure limit value 500 mg/m³ (mg/m³)		
Germany	Limitation of exposure peaks (mg/m³) 1000 mg/m³		
Netherlands Grenswaarde TGG 8H (mg/m³) 650 mg/m³		650 mg/m³	
n-hexane (110-54-3)			

n-hexane (110-54-3)		
EU	Local name	n-Hexane
EU	IOELV TWA (mg/m³)	72 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Netherlands	Grenswaarde TGG 8H (mg/m³) 72 mg/m³	
Netherlands	Grenswaarde TGG 15MIN (mg/m³) 144 mg/m³	
Turkey	Local name	n-Hekzan
Turkey	OEL TWA (mg/m³)	72 mg/m³
Turkey	OEL TWA (ppm)	20 ppm
Turkey	Regulatory reference	12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Protective goggles. Gloves. Protective clothing.

Hand n	rataction:
I Iaiiu u	rotection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):







Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colourless.

Odour : characteristic.

Odour threshold : No data available

pΗ : No data available

Relative evaporation rate

(butylacetate=1)

: No data available

Melting point : Not applicable

Freezing point : No data available

: 50 - 100 °C **Boiling point**

: No data available Flash point

: No data available Auto-ignition temperature

Decomposition temperature : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

: 0.72 g/cm³ Density

Solubility : No data available

Partition coefficient n-octanol/water: No data available

(Log Pow)

: No data available Viscosity, kinematic

Viscosity, dynamic : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available

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Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LD50 oral	4396 mg/kg bodyweight	
LD50 dermal	12800 mg/kg bodyweight	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	46600 mg/l/4h	
n-hexane (110-54-3)		
LD50 oral	> 16000 mg/kg bodyweight	
LD50 dermal	> 2000 mg/kg bodyweight	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 17600 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

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STOT-repeated exposure : May cause damage to organs through prolonged or repeated

exposure.

Aspiration hazard : Not classified

Shell Brake & Clutch Cleaner

Vaporizer Aerosol

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic

: Not classified

environment, short-term (acute)

Hazardous to the aquatic

: Toxic to aquatic life with long lasting effects.

environment, long-term (chronic)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
LC50 fish 1	9640 mg/l		
EC50 Daphnia 1	13299		
EC50 other aquatic organisms 1	13299 mg/l EC50 waterflea (48 h)		
EC50 other aquatic organisms 2	> 1000 mg/l IC50 algea (72 h) mg/l		
ErC50 (algae)	> 100 mg/l		
n-hexane (110-54-3)	n-hexane (110-54-3)		
LC50 fish 1	2.5 mg/l		
EC50 other aquatic organisms 1	50 mg/l EC50 waterflea (48 h)		

12.2. Persistence and degradability

No additional information available

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

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's

sorting instructions.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1950	1950	1950	1950	1950

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ADR	IMDG	IATA	ADN	RID	
14.2. UN proper sl	14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols,	AEROSOLS	AEROSOLS	
		flammable			
Transport documer	nt description				
UN 1950	UN 1950	UN 1950 Aerosols,	UN 1950	UN 1950	
AEROSOLS, 2.1,	AEROSOLS, 2.1,	flammable, 2.1,	AEROSOLS, 2.1,	AEROSOLS, 2.1,	
(D),	MARINE	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	
ENVIRONMENTAL	POLLUTANT/ENVI	LY HAZARDOUS	LY HAZARDOUS	LY HAZARDOUS	
LY HAZARDOUS	RONMENTALLY				
	HAZARDOUS				
14.3. Transport ha	azard class(es)				
2.1	2.1	2.1	2.1	2.1	
2	2	2	2	2	
14.4. Packing gro	up				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environment	tal hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	
environment : Yes	environment : Yes	environment : Yes	environment : Yes	environment : Yes	
	Marine pollutant :				
	Yes				
	No s	upplementary information avai	ilable		

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I Excepted quantities (ADR) : E0 Packing instructions (ADR) : P207

Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - : V14

Packages (ADR)

Special provisions for carriage - : CV9, CV12

Loading, unloading and handling

(ADR)

Special provisions for carriage - : S2

Operation (ADR)

Tunnel restriction code (ADR) : D

- Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Packing instructions (IMDG) : P207, LP200

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Special packing provisions (IMDG) : PP87, L2 EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U Stowage category (IMDG) : None

Stowage and handling (IMDG) : SW1, SW22

Segregation (IMDG) : SG69

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net : 30kgG

quantity (IATA)

PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

- Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN): 1

- Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage — : W14

Packages (RID)

Special provisions for carriage - : CW9, CW12

Loading, unloading and handling

(RID)

Colis express (express parcels) : CE2

(RID)

Hazard identification number (RID) : 23

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

Not applicable

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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

15.1.2. National regulations

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to

AwSV, Annex 1)

: n-hexane is listed

Employment restrictions : Observe restrictions according Act on the Protection of Working

Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young

People in Employment (JArbSchG)

: None of the components are listed

: None of the components are listed

: None of the components are listed

Hazardous Incident Ordinance (12. : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

BlmSchV)

Netherlands

SZW-lijst van kankerverwekkende

stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve liist van voor de

voortplanting giftige stoffen -

Ontwikkeling

3

: None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the

product

Pregnant/breastfeeding women working with the product must not be

in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland
	Waterways

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Comp.)	Gases under pressure : Compressed gas

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Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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.

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