



SAFETY DATA SHEET

AIR FLOW SENSOR CLEANER SPRAY

Product Name: AIR FLOW SENSOR CLEANER SPRAY

Preparation Date: 12.12.2025

GBF Form No: M-00026

Revision Date/Number: 00/00

According to Commission Regulation (EU) 2020/878 as amended

1. Description of the substance/mixture and of the company/distributor;

1.1. The identity of the substance/mixture;

Product form : Mixture
Trade Name : Air Flow Sensor Cleaner Spray
EC Number : Unknown
CAS Number : Unknown

1.2. Identified uses of the substance or mixture and uses advised against;

It is used to improve the performance of air flow sensors used in modern fuel-injected engines, which degrade over time.

1.3. Information about the supplier of the Safety Data Sheet;

Manufacturer : MAXRAY Kimya San. ve Tic. Ltd. Şti.
Address : Mimar Sinan Mah. Üsküdar Cad. YEDPA No:1 Cad. Inner door No: 2
ATAŞEHİR/İSTANBUL
Phone : +90 850 307 04 47
Email : info@maxray.com.tr
Contact Person : Nurullah Düzgün
Product Code : MX-77432
Product Type : Cleaning

1.4. Emergency phone number;

Emergency phone number : 114 (Poison Control Center / For local calls only.)

2. Hazard identification;

2.1. Classification of substances and mixtures;

Classification of the mixture in accordance with Regulation (EC) No 1272/2008.

Skin irritation, Hazard Category 2	H315
Eye irritation, Hazard Category 2	H319
BHOT Single Mrz, Hazard Category 3 (Dizziness)	H336
Aspiration Toxicity, Hazard Category 1	H304
Reproductive System . Tox. 2	H361f
BHOT Single Mrz, Pest Category 2	H373
Highly flammable aerosol	H222
Pressure Box	H229
Aquatic chronic, Pest Category 2	H411

The full text of the H statements; see Section 16.

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2.2. Label elements;

Classification of the mixture in accordance with Regulation (EC) No 1272/2008.

Hazard Label (SEA) :



GHS02 GHS07 GHS08 GHS09 GHS04

Warning word (SEA) : Danger

Hazard Statements (SEA) :

- H222 is a highly flammable aerosol.
- H229 Pressure canister: may explode if heated.
- H304 - Fatal if inhaled or swallowed.
- H315 - Causes skin irritation.
- H361f - Suspected of causing harm to the unborn child or impairing fertility. (Inhalation)
- H373 - Prolonged or repeated exposure may cause damage to organs (nervous system).
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H411 - Long-lasting toxic effect in aquatic environment.

Precautionary Statements (SEA) :

- P102 - Keep out of reach of children.
- P210 - Keep away from heat/sparks/flames/hot surfaces. - No smoking.
- P281: Use personal protective equipment .
- P302+P352: IF IN CONTACT WITH SKIN: Wash with plenty of soap and water.
- P362: Remove soiled clothing and wash it before reusing.
- P251: Pressure vessel: Do not puncture or burn, even after use.
- P410+P403: Protect from sunlight. Store in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P260: Do not inhale dust/fumes/gas/mist/vapor/spray.
- P304+P340: IF INHALED: Remove the affected person to fresh air and keep them in a comfortable position to facilitate breathing.
- P403+P233: Store in a well-ventilated area. Keep the container tightly closed.
- P305+P351+P338: IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P310: IF SWALLOWED: Call a poison control center or doctor/physician.
- P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122F.
- P405: Keep in a locked area.

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P501: Dispose of contents/container in accordance with local/regional/national/international regulations (as specified). Indicate whether this applies to the contents, container, or both, as instructed by the manufacturer/supplier or competent authority.

2.3. Other damages;

PBT or vPvB substances.

3. Information about its composition/ingredients;

3.1. Items;

Not applicable.

3.2. Mixtures

Name of the Substance	CAS Number	EC Number	%	Classification in accordance with the "Regulation on the Classification, Labelling and Packaging of Substances and Mixtures" (SEA), published in the Official Gazette dated 11 December 2013 and numbered 28848 (mükerrer).	Pictograms
Hydrocarbons , C6, n- alkanes , iso-alkanes , cyclics , n- hexane rich	110-54-3	203-777-6	30- 45	Flame. Liquid 2, H225 Asp. Tok. 1, H304 Volume 2, H315 Reproductive System . Tox. 2 H361f BHOT TEK MRZ.3,H336 BHOT TEKR. MRZ. 2 H373 Aquatic Chronic 2,H411	GHS02 GHS07 GHS08 GHS09 Dangerous
Propan-2-ol	67-63-0	200-661-7	10- 20	Flame. Liquid 2, H225 Eye Test.2, H319 BHOT TEK MRZ.3,H336	GHS02 GHS07 Dangerous
Petroleum gases, liquefied	68476-85-7	270-704-2	30- 45	Flame. Gas 1, H220	GHS02 DANGER

For the full text of the H statements, see Section 16.

Additional Information < 0.1% Benzol (benzene)

4. First aid measures;

4.1. Explanation of first aid measures;

Inhalation	Remove the patient from the danger zone, keep them warm, and allow them to rest. Seek medical assistance. Use a ventilator if breathing is difficult.
Contact with skin	Remove all contaminated clothing and footwear. Wash thoroughly with plenty of soap and water.
Eye contact	Immediately lift your eyelids and rinse thoroughly with plenty of water. If discomfort persists, seek medical attention.
If swallowed	Do not induce vomiting. Consult your doctor immediately.

4.2. Significant symptoms and effects, both immediate and delayed.

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Effects and Symptoms

Inhalation : May cause dizziness and lightheadedness. High concentrations may cause eye irritation and nausea. Symptom: Restlessness.

Skin contact : Skin irritation , erythema , edema, and pruritus .

Eye contact : May cause conjunctivitis .

If swallowed : It can damage organs involved in nutrition, such as the esophagus. It can cause nausea, vomiting, and diarrhea. In case of vomiting, respiratory tract damage and pneumonopathy may occur.

4.3. The first signs that require medical intervention and specialized treatment.

Treat symptomatically .

5. Firefighting measures;

5.1. Fire extinguishers

Fire Extinguishing Vehicles

Suitable for : Use carbon dioxide, dry chemicals, and foam.
Not suitable : Do not use a water jet.

5.2. Specific hazards arising from the substance or mixture.

Specific exposure hazards : Highly flammable vapors are heavier than air. They can reach ignition sources. The vapor can form an explosive mixture with air.

Hazardous thermal decomposition products : harmful substances such as carbon monoxide, carbon dioxide, HCl , phosgene, and chlorine can be released.

5.3. Recommendations for firefighting teams

Special for firefighters. Use appropriate respiratory protection equipment in case of inadequate ventilation. Cool the outside of containers with water.

6. Measures to prevent accidental release;

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : If spillage occurs in an enclosed area, clean and ventilate the area.

Personnel involved in application should wear hydrocarbon protective gloves, goggles, boots, and clothing. Adequate ventilation must be ensured.

6.2. Environmental measures

Environmental precautions : Prevent spills and spread. Prevent spills from entering sewers, drainpipes, basements, and enclosed spaces. Report spills to authorities if they contaminate streams or sewers.

Other information : Unknown.

6.3. Methods and materials for preservation and cleaning.

Cleaning methods : Absorb the spills with an inert material (e.g., dry sand, soil, diatomaceous earth, sawdust) and place them in chemical waste containers. Clean the floor with water.

6.4. References to other sections

References to other sections : See also section 8.

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7. Handling and storage;

7.1. Precautions for safe handling

Precautions for safe handling : Handle in well-ventilated areas . Prevent vapor formation. Do not inhale vapors. Avoid contact with skin and mucous membranes. Handle away from sources of flame. Prevent static electricity buildup. Do not smoke. Do not use compressed oxygen or air during transfer and discharge. Have equipment to prevent the spread of fire. Use only cold and gas-free reservoirs. Pay attention to grounding . Discharge slowly, especially at the beginning of the process . Do not spray at high pressures (>3 bar).

7.2. Conditions for secure storage, including disputes.

Storage conditions : Static electricity buildup must be prevented. Store away from flames and heat sources. Containers and devices must be grounded. Keep containers closed when not in use. Store in a dry, cool, and dark place.

Recommended packaging : Store only in the packaging in which it was supplied.

7.3. Specific end uses

Usage : Use only as directed.

8. Exposure control/personal protection;

8.1. Control parameters

Hydrocarbons , C6, n- alkanes , iso-alkanes , cyclics , n- hexane rich

Observed Effects	Exposure	DNEL	Type of Toxicity
Worker damage limits			
Inhalation - Systemic Effects	Prolonged exposure	93 mg/ m ³	
Dermal -Systemic Effects	Prolonged exposure	13 mg/kg / day	Neuro toxicity
Damage limits for the general population.			
Inhalation - Systemic Effects	Prolonged exposure	20 mg/ m ³	Neuro toxicity
Dermal -Systemic Effects	Prolonged exposure	7 mg/kg / day	Neuro toxicity
Oral-Systemic Effects	Prolonged exposure	6 mg/kg / day	Neuro toxicity

Propan-2-ol

Observed Effects	Exposure	DNEL	Type of Toxicity
Worker damage limits			
Inhalation - Systemic Effects	Prolonged exposure	500 mg/ m ³	
Dermal -Systemic Effects	Prolonged exposure	888 mg/kg / day	
Damage limits for the general population.			
Inhalation - Systemic Effects	Prolonged exposure	89 mg/ m ³	Repeated dose toxicity

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Dermal -Systemic Effects	Prolonged exposure	319 mg/kg / day	Repeated Dose Toxicity
Oral-Systemic Effects	Prolonged exposure	26 mg/kg / day	Repeated Dose Toxicity

8.2. Exposure controls

- Engineering measures : Ensure adequate general and local ventilation. The ventilation system should be regularly maintained and inspected. Observe the exposure limits of the product or content.
- Hygiene precautions : General hygiene rules regarding the use of chemical substances should be applied. Wash your hands during breaks and after work. Keep away from food, drinks, and meals. Remove contaminated clothing and protective equipment before entering eating areas.
- Personal protective equipment : The effectiveness of personal protective equipment depends, among other factors, on temperature and ventilation. Professional advice should be sought depending on the specific situation.
- Body protection : Wear protective clothing, work overalls or suit and similar footwear conforming to EN 365/367, specifically standard 345. Suitable material: nitrile . Insulation time: impermeable.
- Respiratory protection : In well- ventilated areas, no special equipment is required. In poorly ventilated areas, use artificial respiration.
- Hand protection : Wear gloves conforming to EN 374 standard . Suitable material: nitrile . ± 0.5 mm penetration time: impermeable. Replace gloves as needed.
- Eye protection : Use tightly fitting, chemical-protective goggles or a face shield. If there is a risk of inhalation, use a full-face gas mask.

9. Physical and chemical properties;

9.1. Basic physical and chemical properties

- Physical Appearance : Liquid
- Color : Transparent
- Scent : Characteristic
- Odor threshold : Unknown
- Flash Point (°C) (min) : ≤ 21
- Boiling Point (°C) (min) : Unknown
- Density (g/ cm³) : 0.6 -0.8
- pH : Unknown
- Viscosity (cSt) : Unknown
- Flash Point : >200 °C
- Vapor Pressure : Unknown
- Vapor density : Unknown
- Solubility Feature : Not Soluble
- Refractive Index : 25-31

9.2. Other information

No further information available.

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10. Stability and reactivity;

10.1. Reaction

Reactivity: There are no known harmful reactive effects .

10.2. Chemical stability

Stability : It is stable under normal conditions.

10.3. Possibility of harmful reactions

Reactivity : The likelihood of a reaction occurring is high in the presence of oxidizing agents.

10.4. Situations to avoid

Conditions to avoid : Avoid sources of flame such as heat and sparks. Containers may explode or burn fiercely due to excessive pressure when heated . Static electricity buildup must be prevented.

10.5. Substances to avoid

Materials to avoid: Oxidizing agents.

10.6. Harmful decomposition products,

Hazardous decomposition products : Do not decompose if stored and used under appropriate conditions . Products that decompose thermally or are compressed may include: harmful gases and vapors.

11. Toxicological information;

11.1. Information about toxic effects

Article	Toxicity Type	Toxicity Zone	Test Animal	Conclusion
Hydrocarbons , C6, n- alkanes , iso-alkanes , cyclics , n-hexane rich	Acute	Oral	Rat/Male	LD 50: >25 ml/kg
		Breathing	Rat/Male	LC 50: 259354 mg/ m ³
		Dermal	Rabbit/Male	LD 50: >5 ml/ kg
	Irritation	Dermal	Rabbit	None
		Eyelash	Rabbit	None
	Sensibility	Dermal	Mouse	None
	Repeat Dose	Oral	Rat/Male	LOAEL; 37973 mg/kg NOAEL; 1135 mg/kg / day
		Inhalation/Systemic	Rat/Female-Male	NOAEC; 2984 ppm (Lung and kidney) LOAEC; 8992 ppm
	Genetic		Rat	None
	Reproductive/Developmental toxicity	Breathing	Rat	NOAEC; 3000 ppm LOAEC; 9000 ppm
Propan-2-ol	Acute	Oral	Rat	LD 50: 5.84 g/ kg

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		Breathing	Rat/Female-male	LC 50 > 10000 ppm
			Dermal	Rabbit
Irritation		Dermal	Rabbit	None
		Eyelash	Rabbit	Category 2
Sensibility		Dermal	Guinea Pig / Female-Male	None
Repeat Dose		Inhalation/Systemic	Rat/Female-Male	NOEC; 500 ppm (toxic effect) NOAEC; 5000 ppm NOEC; 5000 ppm (Oncogenicity)
Genetic			Mouse/Female-Male	None
Reproductive			Rat (Female-Male)	None

12. Ecological information;

12.1. Toxicity

Hydrocarbons , C6, n- alkanes , iso-alkanes , cyclics , n- hexane rich

Short-term toxicity (fish) : LL50: 13.37 mg/l (96 hours)

Long-term toxicity (fish) : NOELR: 2992 mg/l

Short-term toxicity (invertebrates) : LL50: 23.35 mg/l (48 hours)

Long-term toxicity (invertebrates) : NOELR: 5224 mg/l (21 days)

Toxicity (Algae, cyanobacteria) : EL50: 9902 mg/l (48 hours)

Toxicity (Microorganisms) : EL50: 51.6 mg/l (48 hours)

Propan-2-ol

Fresh water : PNEC; 140.9 mg/l

Marin :PNEC; 140.9 mg/l

STP :PNEC; 2251 mg/l

Sediment (Fresh water) :PNEC; 552 mg/kg sediment dw

Sediment (Marin) :PNEC; 552 mg/kg sediment dw

Soil :PNEC; 28 mg/kg soil dw

Predators : PNEC; 160 mg/kg food

12.2. Persistence and degradability

Persistence : Biodegradable .

12.3. Bioaccumulation potential

Potential for bioaccumulation : There is no known potential for bioaccumulation.

12.4. Mobility in the soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB assessment

PBT/ vPvB values : Does not contain PBT or vPvB substances.

12.6. Other negative effects

Other information : Not applicable.

13. Disposal information;

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13.1. Waste processing methods

Product residue : Recyclable container. Do not puncture or burn, even after use. Do not dispose of empty packaging with normal household waste. Containers should be recycled or reused. Product residues, including non-empty packaging, should be treated as chemical waste.

Additional warning : Unknown.

European Waste Catalogue : Dispose of hazardous waste in an official chemical waste storage facility in accordance with Directive 91/689/EEC and under a waste law pursuant to Commission Decision 2000/532/EC.

Local regulations : Waste disposal must comply with applicable regional, national, and local laws and regulations. Local regulations may be stricter than regional and national requirements and must be complied with.

14. Transportation information;

14.1. UN Number : UN 1950

14.2. Appropriate UN shipping name

Appropriate shipping name : AEROSOLS
Proper shipping name (IMDG, IATA) : AEROSOLS

14.3. Transportation hazard class(es) : 2 (ADR/RID/ADN/IMDG/IATA)

Classification Code : 5F (ADR/RID/ADN)

Hazard Label : 2.1



14.4. Packaging group : None

14.5. Environmental damage

Marine pollutant : YES

14.6. Special measures for the user

Unless otherwise stated, measures applicable to safe transport will be taken.

IATA Cargo Aircraft: 203

IMDG - Technical name: Aerosol

IMDG Page: F -D, SU

14.7. Public transport according to MARPOL 73/78 Annex II and IBC code.

Marpol : As per the instructions above, it is not a hazardous product.

15. Knowledge of legislation;

15.1. Specific safety, health and environmental regulations for the substance or mixture.

National Legislation

- Turkish Ministry of Environment and Urbanization, Regulation No. 28848, dated December 11, 2013, on the Classification, Labelling and Packaging of Substances and Mixtures.



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- Turkish Ministry of Environment and Urbanization, Waste Management Regulation, dated April 2, 2015, numbered 29314.
- Turkish Ministry of Labour and Social Security, Regulation No. 28733 dated August 12, 2013, on Health and Safety Measures in Work with Chemical Substances.
- Turkish Ministry of Labour and Social Security, Regulation No. 28695 dated July 2, 2013, on the Use of Personal Protective Equipment in Workplaces.
- Turkish Ministry of Labour and Social Security, Occupational Health and Safety Law No. 6331, dated June 30, 2012.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information;

Abbreviations

Flammable Liquid 2	: Flammable Liquid, Hazard Category 2.
Reproductive System Toxic, Hazard Category 2	
BHOT TEK. MRZ 3	: Specific Target Organ Toxicity-Single Exposure , Category 3
Asp.Tok . 1	: Aspiration Toxicity, Hazard Category 1
BHOT Tek. MRZ.2	: Specific Target Organ Toxicity - Repeated Exposure , Category 2
Eye Irritation 2	: Eye Irritation, Hazard Category 2
Skin Irrit. 2	: Skin Irritation, Hazard Category 2
Cance. 2	: Carcinogenicity , Hazard Category 2
LD50	: The dose of a substance that causes 50% (half) death in the test animal group (Median Lethal Dose)
LC 50 :	Concentration of a substance causing 50% (half) mortality in a test animal group.
ADR	: European Agreement concerning the international carriage of dangerous goods by road.
IMDG	: International Maritime Dangerous Goods
IATA	: International Air Transport Association
ADN :	European Agreement concerning the international carriage of dangerous goods by inland waterways
RID	: European Agreement concerning the international carriage of dangerous goods by rail.
Merpol 73/78	: International Convention for the Prevention of Pollution from Ships, 1973, as amended by Protocol 1978. IBC: International Code for the Construction and Equipment of Ships Carrying Dangerous Bulk Chemicals (International Bulk Chemicals Code)
WEL	: Workplace Exposure Limit
TWA	: Workplace Exposure Limits
STEL	: Short-Term Exposure Limit
EC No	: European Community Number
CAS	: Service for Chemical Theories
PBT	: Persistent, Bioaccumulative , and Toxic Substance.
CF.87	



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vPvB : Very Persistent, Highly Bioaccumulative
DNEL : Derived Effect Unobserved Time
Va : Body weight

Certificate Number: TÜV/11.302.03

Certificate Expiration Date: 05.11.2030

LEGAL NOTICE (DISCLAIMER)

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