



MATERIAL SAFETY DATA SHEET

MSDS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME : 404 PROTECTIVE LUBRICANT SPRAY
COMPANY NAME : 404 Kimya San. ve Tic. A.Ş.
Headquarters: Merkez Mahallesi Akçe Sokak Güzle İş Merkezi
No:3 Kat:1 Şile Yolu Shell Benzin İstasyonu Yanı
Çekmeköy/ İSTANBUL
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2. HAZARD IDENTIFICATION

Human and Environmental Hazards: This product is considered to be dangerous according to The European Union Directives 67/548 / EEC and 1999/45 / EC. This product will flame up when exposed to ignition sources. Do not spray on a naked flame or incandescent materials.



Combustible.

Description: The classification for respiratory hazards (R65) does not apply to products in aerosol containers on the market. (EU-Directive 67/548 Annex VI 9.4) Inhalation of concentrated petroleum distillate vapors may cause failure of the central nervous system.

3. INFORMATION ABOUT THE COMPOSITION/INGREDIENTS

Ingredients	EC No.	CASRN	Classification	Weight %
Mildly Hydro-treated Petroleum Distillates	265-149-8	64742-47-8	EU-Directive 67/548 Annex VI 9.4	% 70 – 80
Severely Hydro-treated Petroleum Distillates Naphthenic	265-155-0	64742-52-5	---	%20 – 30
3-Methoxy-3-Methyl-1-Butanol	260-252-4	56539-66-3	Not Classified	%1 – 3
Odorless LPG	204-696-9	124-38-9	Not Classified	%1 - 5

4. FIRST AID

Eyes: Check contact lenses, remove them. If irritation or redness occur, rinse eyes with cool, clean and low pressure water for at least 15 minutes. Ensure separation of eyelids from eyes during washing. Do not use ointment. Immediately get medical assistance.

Skin: Remove contaminated clothes immediately. In case of contact with skin, wash contaminated area immediately with plenty of soap and water. Do not use ointment. If irritation persists, seek medical assistance.

Inhalation: Immediately move victim to fresh air. If not breathing, apply artificial respiration. If heart fails, do cardiopulmonary resuscitation immediately. In case of difficulty in breathing, immediately get medical assistance.

Ingestion: Do not induce vomiting unless advised by doctor. If victim is unconscious do not try him/her swallow anything. In case of uncontrollable vomiting, place victim's head between his/her knees. If victim becomes unconscious, lean towards left. Do not leave alone. Immediately get medical assistance

5. FIRE FIGHTING MEASURES

Hazardous Combustion Products: Carbon monoxide and carbon dioxide.

Fire/Explosion Hazards: High temperatures causes boiling of product and formation of vapor giving rise to explosion of closed containers. Aerosol sprays may explode due to heating, spread fire and bypass sprinkler systems.

Extinguishing Media: SMALL FIRE: Use dry chemical powder.

LARGE FIRE: Use carbon dioxide, water spray, chemical foam.

Reduce the pressure of containers by cooling with water to prevent any risk of explosion.

Sensitivity to impact: None.

Sensitivity to Static Discharge Yes.

Protective Clothing: Fire fighters should wear fully equipped fireman's outfit against toxic fumes and gases. Fire area should be evacuated and intervention to fire should be done from the farthest distance possible or remotely controlled unmanned hose and nozzle holders should be used.

6 . ACCIDENTAL RELEASE MEASURES

Environmental Protection Measures: Do not allow spillage enter into sewer, drainage and water outlets. If this happens immediately notify local authorities.

Spillage Cleaning Method:This product is a hermetically sealed pressurized aerosol unit and accidental spillage is quite unlikely. If can is torn apart, allow content to flow onto ground after removing all sources of ignition and after ensuring maximum ventilation. Cover the chemical with an absorbent material such as sand or soil and put into a solid container using a grab. Dispose of in accordance with local regulations.

7. STORAGE

Usage:Seek medical advice.

Storage:Pressurized container: Protect from direct sunlight and temperatures above 50 ° C. Aerosol sprays are recommended to be stored in a separate space from flammable liquids and packaging materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	EC No.	UK LT EXP (8 hours)	UK ST EXP (15 minutes)	Other Limits
Mildly Hydro-treated Petroleum Distillates	265-149-8	Not specified.	Not specified.	100 ppm 525 mg/ m ³ (recommended)
Severely Hydro-treated Petroleum Distillates Naphthenic	265-155-0	Not specified.	Not specified.	5 mg/ m ³ ACGIH-STEL (oil mist)
3-Methoxy-3-Methyl-1-Butanol	260-252-4	Not specified.	Not specified.	Not specified.
Carbon Dioxide	204-696-9	5000 ppm	15000 ppm	5000 ppm ACGIH-TLV 30000 ppm ACGIH-STEL

Engineering Controls: Normal room ventilation is sufficient. If need arises, provide required ventilation to maintain exposure limits under the limits outlined by relevant regulations.

Eyes: Protective goggles. Having eye-wash station is recommended.

Inhalation: A typical use of this product under normal conditions does not require using a respiratory device.

Hygiene Measures: Do not keep on working without changing clothes if your clothes are contaminated with the product. Do not wear contaminated clothes without washing. Have eye-wash station.

Environmental Exposure Limit: Cover residues of the product with absorbent material and dispose in accordance with local regulations. Ventilate area to prevent exposure of workers to vapor and accumulation of explosive vapor concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid	Color	Dark green
Odor	Petroleum/Vanilla	Vapor Pressure	7 pascal at 20 °C
Solubility	< %3	Evaporation Rate	<0.7 (n-BuAc=1)
Boiling Point (°C)	195 °C	Flash point (°C)	79 °C (175 °F) +/- 6 °C
Specific Weight (Water=1)	0.83-0.85 at 25 °C	Flash Point Method	Tightly sealed container
Vapour Density (Air = 1)	4.7	Freezing Point ° c	Not applicable.
Melting point	Not specified.	Partition Coefficient (octanol/water)	<1
Flammable Limits (estimated)	Lower: 1% Upper:6%	Volatility (%)	%85-95
pH	Not specified.	Combustion Temperature	> 30 kJ/g
Viscosity	< 7 cSt at 25°C	Odor Threshold	Not specified.
Auto-ignition Temperature	>228°C	Combustion Limits	Lower: 0.6% Upper: 7%

10. STABILITY AND REACTIVITY

Stability and Reactivity This product is stable.

Conditions to Avoid: Prolonged exposure to sunlight. Temperatures above 50°C.

Incompatibility with various substances: Very reactive with oxidized agents or incompatible with them.

Hazardous decomposition products: Combustion creates a thick layer of smoke and prevents vision.
Produces carbon dioxide and carbon monoxide.

Hazardous polymerization: Hazardous polymerization does not occur.

11. POISONING INFORMATION

Acute and Chronic Toxicity

General Product Information

The following are related to exposure to the product. This product may cause failure in central nervous system. High atmospheric concentrations cause irritation in eyes, irritation of nasal and respiratory system. However, this product will not cause any significant harm if used in well-established industrial health conditions.

Substance	EC No.	LC-50	LD-50
Mildly Hydro-treated Petroleum Distillates	265-149-8	> 6.8 mg/L	> 5 g/kg
Severely Hydro-treated Petroleum Distillates Naphthenic	265-155-0	Not Available	Not Available
3-Methoxy-3-Methyl-1-Butanol	260-252-4	Not Available	> 4.3 g / kg acute oral / rat > 2000 mg/kg by skin / rat
Carbon Dioxide (only spray)	204-696-9	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Mobility: Semi-volatile Easily absorbed by soil.

Bio-cummulative Potential: None.

Persistence and degradability: Slowly fades away.

Other Adverse Effects: No known effect.

Ingredient Information: Acute Aquatic Toxicity

Effects on Living Organisms	Substance	EC No.	Test	Type	Result
Acute Toxicity in Fishes	Mildly Hydro-treated Petroleum Distillates	265-149-8	96-saat LC50	Oncorhynchus mykiss (rainbow trout)	3200 µg/L
Acute Toxicity on Daphnia	No data available				
Bacterial Inhibition					
Algae Growth Inhibition					
Bioaccumulation in Fishes					

Regarding the substance 265-149-8, no aquatic toxicity is detected since its solubility is very low. When spilled on soil, some potential toxic effects may occur before degradation by natural microorganisms.



When the substance 265-155-0 is spilled, it may kill grasses and small plants due to sweating. May cause suffocation of fishes by coating their gills when disposed into the shallow waters. Obstruct skin respiration of creatures living in water and on land. Inhalation of vapors may irritate mucous membranes in the respiratory system. Degradability of this product in nature may take 90-120 days at temperatures above 21 °C in aerobic environments.

13. DISPOSAL CONSIDERATIONS

Disposal: Chemicals must be disposed of in compliance with respective national regulations.

Note: Chemical additives, process or changes in product may render these disposal information inaccurate, incomplete and inappropriate.

14. TRANSPORT INFORMATION

-ADR/RID 	Technical Name:	Not Available	Hazard ID No.	Not Available
	UN No:	1950	ADR Class:	2
	Classification Code:	5 F	Transportation Name:	Aerosol, Flammable
	Labelling:	2.1	Packaging Group:	Not Available
IMDG-IMO	UN No:	1950	Class:	2
	Transportation Name:	Aerosols	Packaging Group:	Not Available
	Labelling:	Not Available	Subsidiary Risk:	2.1
	Marine Pollutant:	No	Technical Name:	Not Available
IATA-ICAO 	UN No:	1950	Class:	2.1
	Appropriate Transportation Name:	Aerosols, flammable	Packaging Group:	Not Available
	Packaging Instructions:	203, Y203 (Ltd. Qty)	Technical Name:	Not Available
	Labelling:	Flammable Gas	Subclass:	Not Available

15 . REGULATORY INFORMATION

HAZARD SYMBOLS:



Risk Phrases: R-10 Flammable.

Safety Phrases: S-2 Keep away from children.
S-16 Keep away from sources of ignition - no smoking. Do
S-23 not breathe gas/fumes/vapour/spray.
S-24 Avoid contact with skin.

Precautionary Phrases: Pressurized container: Protect from sunlight and temperatures above 50°C. Never pierce or burn even after use. Do not spray on a naked flame or incandescent materials.

16 . OTHER:

Note To The Reader:According to information we have, the content of this form is complete and accurate. However, the above-mentioned companies, subsidiaries and local agents cannot be held liable despite the fact that the information presented herein are complete and accurate. The responsibility of deciding suitability of a product is of users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.