MATERIAL SAFETY DATA SHEET
MSDS

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

PRODUCT NAME : **404 LIQUID GREASE 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
Factory: Organize San. Böl. 102 Ada 7 Parsel
Selimiye Köyü OSMANELİ/ BİLECİK
Headquarters Tel: 0216 642 92 71 Fax: 0216 642 92 75
Factory Tel: 0228 470 00 14

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification as per 1272/2008(SEA)(AB) Regulation is not specified.

2.1.2 F+, Extremely Flammable Classification as per 67/548/AET and 1999/45/AB (amendments included)
Xi, Irritant, R36/38
N, Harmful to Environment, R51/53, R67

2.2 Marking Elements

2.2.1 Labelling as per 1272/2008(SEA)(AB) Regulation Not specified.

2.2.2 Labelling Hazard Symbol as per 67/548 AET and 1999/45/AB (amendments included) Directives: F+, Xi, N

Hazard Phrases :

Extremely Flammable, Harmful to Environment

R Phrases
12 Extremely flammable.
20Harmful by inhalation.

38 Irritation to skin.
48/20 Harmful: Danger of serious damage to health by prolonged exposure.
51/53 Toxic to aquatic organisms and may cause long-term effects in the aquatic environment. R67 Vapors may cause drowsiness and dizziness.

S Phrases
1/2 Keep locked up and out of the reach of children. 9 Keep container in a well-ventilated place.
13 Keep away from food, drink and animal foodstuffs. 16 Keep away from sources of ignition - No smoking. 23 Do not inhale vapor and aerosol.
24/25 Avoid contact with eye and skin.
29/35 Do not empty into drains; This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.
61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Container is pressurized. Keep away from sunlight and temperatures above 50°C. Do not pierce by force or burn even if totally consumed.
Do not spray against flames or hot objects.
In the absence of adequate ventilation, explosive mixtures can be formed.
In the absence of adequate ventilation, explosive mixtures may occur.
30% and more of aliphatic hydrocarbons

3. INFORMATION ABOUT THE COMPOSITION/INGREDIENTS

Aerosol			
Ingredient	EC No	CAS No	Concentration %
Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane	925-292-5	-	27-35

rich			
Classification (EC 1272/2008)		Classification (67/548/EEC) F+; R12	
Flam. Liq. 2 – H225		F; R11	
Skin Irrit. 2 – H315		Xn; R65, R67, R48/20	
Asp. Tox. 1 – H304		Xi; R38	
Repr. 2 – H361		N;R51/53.	
STOT SE 3 – H336			
STOT RE 2 – H373			
Lubricating oils	278-012-2	74869-22-0	27 - 32
Classification (EC 1272/2008)		Classification (67/548/EEC) F+; R12	
Repr. 2 H361		Xn; R48/21	
STOT Rep. Exp. 1 H372		Repr. Cat. 3; R63	
Petroleum gases, liquefied	270-704-2	68476-85-7	30 - 40
(<%0.1 1.3 butadien)			
Classification (EC 1272/2008)		Classification (67/548/EEC) F+; R12	
Flam. Gas 1 H220		F+; R12	
Liquefied gas H280		Xn; R20, R48/20	

Please see section 16. for R-Phrases/H-Phrases and classification-abbreviation (GHS/CLP).

4. FIRST AID

General Information	If any discomfort persists, seek medical assistance.
Inhalation	Move patient out of danger zone. Provide the person with fresh air. In case of loss of consciousness, hold patient in stabile side-lying position and consult a doctor.
Ingestion :	Rinse your mouth thoroughly with water. Do not induce vomiting, give plenty of water to drink. Immediately get medical advice. In case of vomiting, head should be kept down.
Skin contact :	Remove all dirty and contaminated clothing. Wash with plenty of soap. May cause irritation, consult a doctor.
Eye Contact	Remove contact lenses. Rinse immediately with plenty of water keeping eyelids open. If symptoms persist, call a physician.

5.FIRE FIGHTING MEASURES

Appropriate Extinguishing Media	CO2, Dry Chemical Powder, light water spray, alcohol-resistant foam
Explosion Risk Chemicals	Aerosol may explode during a fire. Keep at a distance from unprotected people. Containers under risk should be cool down with water. Fire fighters should be informed about existence of aerosol containers.
Special Protective Equipment	Against fire, wear respiratory protective equipment independent of surrounding air and chemical.
Additional Information	Carbon dioxide, carbon monoxide and sulfur are released during combustion.

6 . ACCIDENTAL RELEASE MEASURES

Personal Protection Precautions	Wear personal protective equipment; See Section 8. Remove sources of ignition. No smoking. Adequate Provide adequate ventilation. Avoid contact with eye and skin. Pay attention to danger of slipping.
Measures for Environmental Protections	Do not allow penetration in surfaces, underground waters and soil. Do not allow leakage into sewer, basement and holes where accumulation may be dangerous. In case of accidental spillage into sewer, inform authorities.
Cleaning/Collection Measures	Ventilate with adequate air in case of aerosol/gas leakage. In lack of adequate ventilation, Formation of possibly explosive mixture is possible. Pick up the liquid with absorbent active ingredient material (i.e.; universal Binder, sand, siliceous soil). Section 13. Dispose accordingly.

7. USAGE AND STORAGE

For safe use General Advices	Provide good ventilation of area. Avoid inhalation of vapors. Keep away from sources of ignition. No Smoking Required measures should be taken against static discharge if needed. Do not use on hot surfaces. Avoid contact with eye and skin. Do no eat, drink, or smoke in working area and do not store foodstuffs in working area. Pay attention to instructions on label and users instructions. Use methods suitable for operating instructions.
Safe Storage Conditions	Store out of the reach of unauthorized persons. Keep the product only in original packaging and sealed. Do not store the product on passages or on stairs. Do not store with oxidizing agents. Observe special instructions prepared for aerosols. Keep away from sunlight and temperatures above 50°C. Store in well-ventilated areas.
Additional Information	Keep out of reach of children. Classify as flammable gas in storage and transport.

Components with limit values that require monitoring at the workplace:

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich
TLV - VME=20 ppm (72 mg/m3) (n-hexane(FRANCE&EU))

TLV - VLE=1500 mg/m3 (France C6-C12 hydrocarbons vapours)
TLV - VME= 1000 mg/m3 (France C6-C12 hydrocarbons vapours)
Lubricating oils
PNEC oral = 9.33 mg/kg food

Recommended Use	Application Media / Environment Section	Effects on Health	Descriptor	Value	Unit	Description
Worker/employee	Human-Dermal	Long-term, systemic effects	DNEL	13	Mg/kg	Neurotoxicity
Worker/employee	Human-Inhalation	Long-term, systemic effects	DNEL	93	Mg/m3	Neurotoxicity
Consumer	Human-Dermal	Long-term, systemic effects	DNEL	7	Mg/kg	Neurotoxicity
Consumer	Human-Inhalation	Long-term, systemic effects	DNEL	20	Mg/m3	Neurotoxicity

8. EXPOSURE CONTROL / PERSONAL PROTECTION



Ventilation	Provide suitable suction / ventilation in the workplace. An appropriate respiratory protection should be used to keep concentration under work-field limit value.
Protection against Inhalation	Special equipment are not required in well-ventilated areas. Use artificial respirators in poorly ventilated areas.
Hand protection:	Avoid direct contact. Protective gloves should be used for sensitive skins. (Nitrile gloves – 374)
Eye Protection	Wear goggles and protective equipment shaped like baskets along with protective screen. (EN 166)
Other Protection	General hygiene rules regarding the use of chemicals should be applied. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Remove contaminated cloths and protective equipment before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance	Aerosol
Color	Yellowish
Odor	Characteristic
	Value
Flash point (ºC) (min)	65(ºC)
Boiling Point (ºC) (min)	110(ºC)
Density (g/cm3)	0,82g/cm3
pH	Unknown
Vapour pressure (20 º C) Bar	Unknown
Vapor Density	Unknown

10. STABILITY AND REACTIVITY

Stability	Stable under normal temperatures.
Conditions to Avoid	Decomposition risk exposed to temperatures above +50 °C.
Conditions to Avoid Materials	Oxidation Factor
Hazardous Reactivity Risk	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion :	May cause necrosis inflammation in mouth, esophagus and gastric mucosa. Quick administration of oxygen may cause stomach bloating.
Skin contact :	Prolonged and repeated contacts with skin may cause allergic reactions. Wash with plenty of water and soap in case of contact with sensitive skins.
Eye contact:	May cause irritation.
Additional Toxicological Information	Inhalation of vapors may irritate mucous membranes in the respiratory system, and may cause cough, breathing difficulties and headache.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Long-term ecological studies are not conducted for this product. Treat water discharged into sewer and drainage systems in waste water treatment plants.

13. WASTE DISPOSAL

Disposal Methods	Take full aerosol containers to special waste collectors. Dispose aerosol heads for recycling. Do not pierce, cut or weld containers not cleaned.

14. TRANSPORT INFORMATION

UN number: 1950

Highways/RailTransport (ADR/RID)

UN-Shipment Mark for conditions
(UN- United Nations) UN 1950
AEROSOLS

Class	2.1	
Classification Code	5 F	
UN-Number	1950	
Packaging Group	-	
Environmental Hazards	Harmful to Environment	
Risk Number	23	
Tunnel Restriction Code D		

Transport by Ships Resistant Against Sea (IMDG-Code)

UN-Shipment Mark for conditions (UN- United Nations)
AEROSOLS

Class	2.1	
Packaging Group	-	
EMS Number	F-D, S-U	
Hazardous for Seas (Marine Pollutant)	Yes	
Environmental Hazards	Harmful to Environment	

Transport by Ships Resistant Against Sea (IMDG-Code)

UN-Shipment Mark for conditions (UN- United Nations)
AEROSOLS, FLAMMABLE

Class	2.1	
Packaging Group	-	
Environmental Hazards	Not applicable	

15 . REGULATORY INFORMATION

Classification is made as per **1272/2008 (SEA) (AB) Regulation and67/548/AET and 1999/45/AB Directives (amendments included).**

16. OTHER INFORMATION

RISK PHRASES	

R12	Extremely flammable.
R20	Harmful if inhaled
R38	Irritating to skin.
R48/20	Harmful: Danger of serious damage to health by prolonged exposure.
R51/53	Toxic to aquatic organisms and may cause long-term effects in the aquatic environment.
R67	Vapors may cause drowsiness and dizziness.

H PHRASES	
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure