K Release

Aerosol penetrating release agent

Frees rusted nuts and bolts in seconds

- Powerful penetration
- Fortified with Moly
- Easy to use
- Works fast
- Can be sprayed at any angle

PROBLEM	SOLUTION
Bolts and other fasteners that are frozen in place by rust and dirt	K RELEASE seeps into pores and crevices, softens corrosion, frees fasteners for easy removal
Hard to reach fasteners	K RELEASE has a new spray-any-way valve that can be used in any position, at any angle
Countersunk parts	K RELEASE penetrates even micro-pores and hairline cracks
Time consuming disassembly projects with high labour cost	K RELEASE gives quick results and works instantly

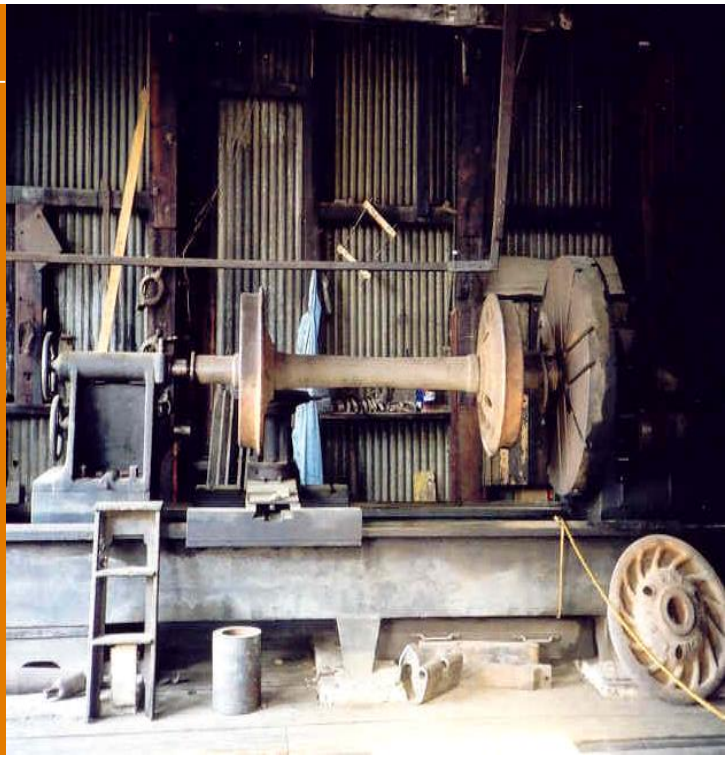
K Release

Aerosol penetrating release agent

APPLICATION AREAS:

For use in:

- Auto repair shops
- Machine shops
- Manufacturing plants
- Refineries
- Construction companies
- Marine fleets
- Railroads
- Trucking firms
- Utilities

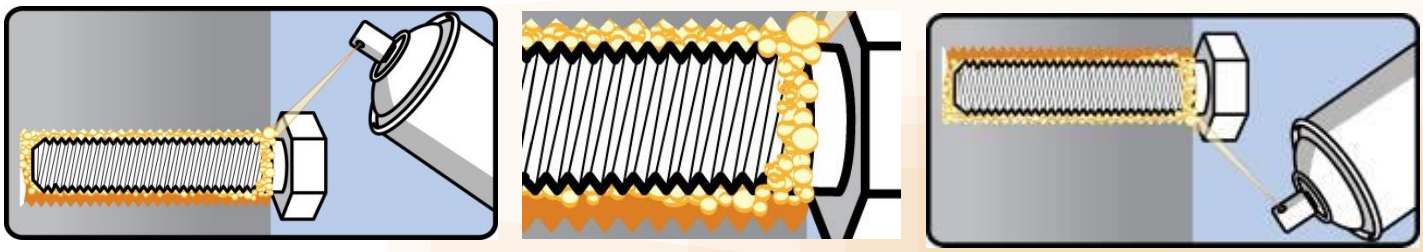


TECHNICAL SPECIFICATIONS

Specific gravity	0.85
Spray characteristics	Narrow cone/jet

DIRECTIONS

1. Shake well before use.
2. Spray K RELEASE lightly onto surface.
3. Allow 5 to 30 seconds for penetration.



NCH lubricants

- Unit 21,13/F, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fotan, N.T., Hong Kong
- Telephone: +852 3693-4326
- Fax: +852 3693-4325
- E-mail: Info@HKNCH.com

www.YesLED.com / Info@YesLED.com

Free™

Penetrant and Release Agent with Moly

The easy way to loosen parts, protect them from rust, and lubricate for re-use.

Used Extensively In...

- Industrial Manufacturing
- Utility & Power Plants
- Building Maintenance
- Printing Facilities
- Chemical Plants & Refineries
- Construction & Mining
- Paper Mills & Packaging
- Steel Mills & Foundries
- Federal, State & Local Agencies
- Automotive Garages
- Machine Shops
- Textile Mills
- Marine
- Farming
- Water Departments
- Food Processing
- Oil Drilling
- Plumbing

- **Works Immediately** — *To Penetrate Rust, Grease Build-up, Corrosion, and Scale for Easy Release.*
- **Penetrates Completely Into Close -Tolerance Areas** — *Frees Even Severely Rusted Nuts & Countersunk Bolts!*
- **Economical To Use** — *Protects Parts From Breakage When Removing. Reduces Expensive Labor Cost and Parts Replacement.*
- **Protects With A Film Of Moly Lubrication** — *Prevents Future Rust & Corrosion Build-up That Cause Parts To Seize. Allows Parts To Be Used Again & Again.*
- **Suitable for use as a non-food contact lubricant in Federally inspected meat and poultry plants. H2**

Applications Include ...

- Nuts & Bolts
- Brake Cables
- Mufflers
- Air Driven Tools
- Removing Taps
- Storing Dies
- Shackles
- Starters
- Frozen Battery Terminals
- Rusted Rims
- Clocks & Watches
- Jammed Locks
- Gauges & Pipes
- Rusty Arbors
- Tachometer Cables
- Tail Pipes

USDA H2

Irving, Texas • Indianapolis, Indiana • Kendall Park, New Jersey • Sunnyvale, California • Brampton, Ontario • Edmonton, Alberta

www.certifiedlabs.com

*Consult the label for directions and precautions before using this product.

SAFETY DATA SHEET K RELEASE, SEIZE EASY, FREE, YIELD

According to EC Regulation 1907/2006/EC - revision 2015/830

Revision No. 3.1

Print Date 12/06/2017 **Creation Date** 02/02/2015 **Revision Date** 30/05/2017

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name	K RELEASE, SEIZE EASY, FREE, YIELD
Product Code	0421KGK1 (CLP)

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

Recommended use

Lubricant. Penetrant.

1.3. Details of the supplier of the safety data sheet

NCH Distribution s.r.o.
Průmyslová 1190
410 02 Lovosice
Czech Republic
Tel.: +420 416 429 111

E-mail address	chemcz@nch.com
Wesite address	www.flexfill.cz

1.4. Emergency telephone number

Toxikologické informační středisko (TIS), Na Bojišti 1, 128 08 Praha 2, Czech Republic
Tel: +420 224 919 293 or +420 224 915 402 (24 Hours, consultation in Czech language only)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Aerosols: Category 1
Eye irritation: Category 2
H222 - Extremely flammable aerosol
H319 - Causes serious eye irritation
H229 - Pressurised container: May burst if heated
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Hazard pictograms

Signal word DANGER

Hazard Statements

H222 - Extremely flammable aerosol
H319 - Causes serious eye irritation
H229 - Pressurised container: May burst if heated

EU classification for GHS template

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

P337 + P313 - If eye irritation persists: Get medical advice/attention
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
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P260 - Do not breathe mist/spray.
P280 - Wear protective clothing and eye protection.
Keep out of reach of children.

For industrial and institutional use only.

2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Component	CAS-No.	EC No.	EU - REACH reg number	Weight percent	EU - GHS/CLP Classification	Notes
HYDROCARBONS, C12-C15, ALKANES	64742-47-8	265-149-8	01-2119456620-43	25 - < 50	Asp. Tox. 1 (H304)	
ETHYL ACETATE	141-78-6	205-500-4	01-2119475103-46	10 - < 20	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) EUH066	
PROPANE	74-98-6	200-827-9	01-2119486944-21	10 - < 20	Press. Gas Flam. Gas 1 (H220)	
SODIUM PETROLEUM SULPHONATE	68608-26-4	271-781-5	01-2119527859-22	5 - < 10	Eye Irrit. 2 (H319)	

For any H statements mentioned in this section, see the full text in section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Do not use solvents or thinners. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse mouth with water. If swallowed, seek medical advice immediately and show this container or label.

Inhalation

If exposed to high concentrations of the aerosol vapours, move to fresh air. If symptoms persist, call a physician.

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

Sensitisation

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

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

Notes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use:. Dry powder. Alcohol-resistant foam. Carbon dioxide (CO2). Water spray.

Extinguishing media which must not be used for safety reasons

Water jet.

5.2. Special hazards arising from the substance or mixture

Material can create slippery conditions. Thermal decomposition can lead to release of irritating gases and vapours. Pressurized container. Extremely flammable. Keep product and empty container away from heat and sources of ignition.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes, and clothing. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Ventilate the area. Due to the nature of the aerosol packaging, a large spill is unlikely. For a small spill, wear appropriate protective clothing, ventilate the area, absorb with an inert material and transfer all material into a properly labeled container for disposal. Use care as spills may be slippery.

6.2. Environmental precautions
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Insoluble in water and hence will float on the surface.

6.3. Methods and material for containment and cleaning up
Methods for Containment
Contain spillage, soak up with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). If using a cloth to wipe up a small spillage, properly dispose of the used cloth to avoid a fire risk.
Methods for Cleaning up
For the non volatile residues:. Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections
Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities
For safety reasons in case of fire, cans should be stored separately in closed containments. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

7.3. Specific end use(s)
No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits
If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Component	European Union	Czech	Slovakia	Poland	Hungary
ETHYL ACETATE		PEL: 700mg/m^3 NPK-P: 900mg/m^3	hranicny 1100mg/m^3 400ppm NPEL 1500mg/m^3 NPEL	NDSCh: 600 mg/m^3 NDS: 200 mg/m^3	CK-érték: 1400 mg/m^3 ÁK-érték: 1400 mg/m^3
PROPANE				NDS: 1800 mg/m^3	

.
8.2. Exposure controls
Engineering Measures
Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Use personal protection equipment as per Directive 89/686/EEC.
Respiratory Protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 141 (organic vapours). In case of inadequate ventilation wear respiratory protection.
Hand Protection
Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Neoprene gloves (0.4 mm). For break through times, refer to glove manufacturers recommendations.
Eye Protection
Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.
General hygiene considerations
Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Information below relates to typical values and does not constitute a specification.

Appearance	Amber	**Specific Gravity**	0.79

Physical State	Liquid	**Solubility**	Insoluble in water
Odour	Hydrocarbon	**Autoignition Temperature**	No data available
pH	Not applicable.	**Viscosity**	Slight Viscous
Melting Point/Range	No information available.	**Explosive properties**	No information available
Boiling Point/Range	-10 °C	**Oxidizing Properties**	No information available.
Flash Point	< -50 °C	**VOC Content (%)**	71.1 %
Evaporation Rate	No information available.		
Flammability Limits in Air %	No information available.		
Vapour Pressure	No information available.		
Vapor Density	No information available.		

9.2. Other information
No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity
Not considered as highly reactive. See further information below.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.
10.4. Conditions to avoid
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from open flames, hot surfaces, and sources of ignition.
10.5. Incompatible materials
Strong oxidising agents.
10.6. Hazardous decomposition products
None under normal storage conditions and use.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Product Information
The product itself has not been tested.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
HYDROCARBONS, C12-C15, ALKANES	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
ETHYL ACETATE	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	
PROPANE			= 658 mg/L (Rat) 4 h

Sensitisation
No information available.
Skin contact
May cause irritation as itching or redness.
Inhalation
Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.
Eye contact
May cause irritation as itching and redness.
Carcinogenicity
There are no known carcinogenic substances in this product.
Mutagenic Effects
There are no known mutagenic substances in this product.
Reproductive Effects
There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Product Information
The product itself has not been tested.
Ecotoxicity effects
Contains substance(s) known to be hazardous to the aquatic environment.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
HYDROCARBONS, C12-C15, ALKANES	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h		
ETHYL ACETATE	LC50 220 - 250 mg/L Pimephales promelas 96 h	560: 48 h Daphnia magna mg/L EC50 Static	

	LC50 = 484 mg/L Oncorhynchus mykiss 96 h LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h		

12.2. Persistence and degradability
Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.
12.3. Bioaccumulative potential
Bioaccumulation unlikely due to the high volatility of the product. Component information below.

Component	log Pow
ETHYL ACETATE	0.6
PROPANE	2.3

12.4. Mobility in soil
The product is insoluble and floats on water. This preparation is volatile and will readily evaporate to the air if released into the environment.
12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.
12.6. Other adverse effects
No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
.
Waste from Residues / Unused Products
Dispose of in accordance with local regulations.
Contaminated Packaging
Do not expose to heat, flames, sparks or other sources of ignition. Do not pierce or burn, even after use. Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.
EWC waste disposal No
The following EWC/ AVV waste codes may be applicable:. 16 05 04* gases in pressure containers (including halons) containing dangerous substances.
Other Information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.
IMDG/IMO

UN-No	UN1950
Proper Shipping Name	Aerosols, Flammable
Hazard Class	2.1
Packing Group	-
EmS	F-D, S-U

ADR / RID

UN-No	UN1950
Hazard Class	2.1
Packing Group	-
Classification Code	5F
Limited Quantity	1 L
Transport Cat. (Tunnel Restriction Code)	2 (D)

IATA/ICAO

UN-No	UN1950
Hazard Class	2.1
Packing Group	-
ERG Code	10P

14.5. Environmental hazards
The mixture is not environmentally hazardous for transport
14.6. Special precautions for user
No special precautions.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Packaged product, not typically transported in IBC's.
Additional information
The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

WGK Classification
Water-endangering (WGK 2), Classification according VwVwS

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3
H220 - Extremely flammable gas. H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. EUH066 - Repeated exposure may cause skin dryness or cracking.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]
On the basis of test data. H222 - Extremely flammable aerosol. Calculation method. H319 - Causes serious eye irritation.
Prepared By Austen Pimm
Creation Date 02/02/2015
Revision Date 30/05/2017
Revision summary
CLP update. SDS sections updated 3 2 15 16

Abbreviations
REACH: Registration Evaluation Authorisation Restriction of Chemicals
EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefahrdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Reglement international concernant le transport des merchandises dangereuses par chemin der fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
Further Information
Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet