

# Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

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

- **1.1 Product identifier**
- **Trade name: Super Lube® Silicone Aerosol**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Kano Laboratories LLC  
24 DaVinci Dr., P.O. Box 405  
Bohemia, NY 11716  
Telephone: 631-567-5300  
Email: info@super-lube.com
- **Further information obtainable from:** Product Safety Department
- **1.4 Emergency telephone number:**  
ChemTel  
1-800-255-3924 (US/Canada), 1-813-248-0585 (International), 1-300-954-583 (Australia),  
0-800-591-6042 (Brazil), 400-120-0751 (China), 000-800-100-4086 (India), 800-099-0731 (Mexico)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EU) No 2015/830**



H222: Extremely flammable aerosol.



GHS02 flame

Flam. Aerosol 1    H222-H229    Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

Aquatic Acute 1    H400    Very toxic to aquatic life.

Aquatic Chronic 1    H410    Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2    H315    Causes skin irritation.

Eye Irrit. 2    H319    Causes serious eye irritation.

STOT SE 3    H336    May cause drowsiness or dizziness.

Asp. Tox. 1    H304    May be fatal if swallowed and enters airways.

(Contd. on page 2)

# Safety data sheet

## according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 1)

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurised container.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **Additional information:** 0 percent of the mixture consists of component(s) of unknown toxicity

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**

heptane

acetone

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P312 present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor if you feel unwell.

(Contd. on page 3)

## Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

**Trade name: Super Lube® Silicone Aerosol**

(Contd. of page 2)

P302+P352 IF ON SKIN: Wash with plenty of water.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

**Hazard description:**
**2.3 Other hazards**
**Results of PBT and vPvB assessment**

· **PBT:** Not applicable.








· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane -----  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; STOT SE 3, H336	40-60%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone -----  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide -----  Press. Gas L, H280	2,5-10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information:**

Take affected persons out into the fresh air.  
 Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
 Provide oxygen treatment if affected person has difficulty breathing.

(Contd. on page 4)

## Safety data sheet according to (EU) 2015 / 830

Revision: April 1, 2024

**Trade name: Super Lube® Silicone Aerosol**

(Contd. of page 3)

- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.  
In cases of frostbite, rinse with plenty of water. Do not remove clothing.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Unlikely route of exposure.  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.  
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Headache  
Breathing difficulty  
Frostbite  
Dizziness  
Coughing  
Irritant to skin and mucous membranes.  
Irritant to eyes.
- **Hazards**  
Vapours have narcotic effect.  
Danger of disturbed cardiac rhythm.  
Condition may deteriorate with alcohol consumption.  
Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Later observation for pneumonia and pulmonary oedema.  
Treat frost-bitten areas appropriately.  
If swallowed or in case of vomiting, danger of entering the lungs.  
Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Alcohol resistant foam  
Carbon dioxide  
Fire-extinguishing powder  
Gaseous extinguishing agents
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Danger of receptacles bursting because of high vapour pressure when heated.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

(Contd. on page 5)

## Safety data sheet according to (EU) 2015 / 830

Revision: April 1, 2024

**Trade name: Super Lube® Silicone Aerosol**

(Contd. of page 4)

· **Additional information**

Eliminate all ignition sources if safe to do so.  
Cool endangered receptacles with water fog or haze.  
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Protect from heat.

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Allow to evaporate.  
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Use only in well ventilated areas.  
Keep away from heat and direct sunlight.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.  
Emergency cooling must be available in case of nearby fire.  
Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Provide ventilation for receptacles.  
Observe official regulations on storing packagings with pressurised containers.  
Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

(Contd. on page 6)

## Safety data sheet according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 5)

Store away from oxidising agents.

- **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep container tightly sealed.

Protect from heat and direct sunlight.

Storage Temperatures : &lt;122 ° F / &lt;50 °C.

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

#### 142-82-5 heptane

IOELV (EU)	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
PEL (USA)	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm Ceiling limit: 1800* mg/m <sup>3</sup> , 440* ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm
MAK (Germany)	Long-term value: 2100 mg/m <sup>3</sup> , 500 ppm vgl. Abschn. XII

#### 64742-47-8 Distillates (petroleum), hydrotreated light

MAK (Germany)	Long-term value: 140 mg/m <sup>3</sup> , 20 ppm vgl. Abschn. Xc
---------------	--

#### 124-38-9 carbon dioxide

IOELV (EU)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
PEL (USA)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
REL (USA)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
TLV (USA)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
AGW (Germany)	Long-term value: 9100 mg/m <sup>3</sup> , 5000 ppm 2(II);DFG, EU

- **DNELs** No further relevant information available.

- **PNECs** No further relevant information available.

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

(Contd. on page 7)

## Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

**Trade name: Super Lube® Silicone Aerosol**

(Contd. of page 6)

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses

· **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

· **Limitation and supervision of exposure into the environment** Avoid release to the environment.

· **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: Transparent

· **Odour:** Solvent-like

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Not applicable, as aerosol.

(Contd. on page 8)

## Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 7)

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Boiling point/Boiling range:</b></li> <li>· <b>Flash point:</b></li> <li>· <b>Flammability (solid, gaseous):</b></li> <li>· <b>Auto/Self-ignition temperature:</b></li> <li>· <b>Decomposition temperature:</b></li> <li>· <b>Self-igniting:</b></li> <li>· <b>Danger of explosion:</b></li> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li><b>Lower:</b></li> <li><b>Upper:</b></li> </ul> </li> <li>· <b>Vapour pressure at 20 °C:</b></li> <li>· <b>Density at 20 °C:</b></li> <li>· <b>Relative density</b></li> <li>· <b>Vapour density</b></li> <li>· <b>Evaporation rate</b></li> <li>· <b>Solubility in / Miscibility with water:</b></li> <li>· <b>Partition coefficient (n-octanol/water):</b></li> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li><b>Dynamic:</b></li> <li><b>Kinematic:</b></li> </ul> </li> <li>· <b>9.2 Other information</b></li> </ul> | <ul style="list-style-type: none"> <li>Not applicable, as aerosol.</li> <li>-4 °C<br/>Extremely flammable aerosol.</li> <li>Not applicable.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Product is not self-igniting.</li> <li>In use, may form flammable/explosive vapour-air mixture.</li> <li>Not determined.</li> <li>Not determined.</li> <li>80-90 psig</li> <li>0,866 g/cm<sup>3</sup></li> <li>Not determined.</li> <li>Not determined.</li> <li>Not applicable.</li> <li>Not miscible or difficult to mix.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>No further relevant information available.</li> </ul> |
|---|--|

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **10.3 Possibility of hazardous reactions**  
Extremely flammable aerosol.  
Develops readily flammable gases/fumes.  
Danger of receptacles bursting because of high vapour pressure when heated.  
Reacts with peroxides and other radical forming substances.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidising agents.

(Contd. on page 9)



## Safety data sheet according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 8)

- **10.5 Incompatible materials:** Oxidizing agents
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity:

##### · LD/LC50 values relevant for classification:

##### 142-82-5 heptane

Oral	LD50	> 5000 mg/kg (rat) (Estimate)
Inhalative	LC50/4h	103 mg/l (rat)

##### · Primary irritant effect:

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitisation:** No sensitising effects known.

· **Subacute to chronic toxicity:** No further relevant information available.

##### · Additional toxicological information:

Irritant

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

##### · Acute effects (acute toxicity, irritation and corrosivity):

Vapours have narcotic effect.

Irritating to eyes.

Irritating to skin.

· **Repeated dose toxicity:** No further relevant information available.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

· **Aquatic toxicity:** Toxic for aquatic organisms

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** Does not accumulate in organisms.

· **12.4 Mobility in soil** No further relevant information available.

##### · Ecotoxicological effects:

· **Remark:** Very toxic for fish

##### · Additional ecological information:

##### · General notes:

This statement was deduced from the properties of the single components.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

(Contd. on page 10)

## Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol


(Contd. of page 9)

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Contact waste processors for recycling information.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
-  Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).
- **DOT, IATA** Aerosols, flammable
- **ADR** 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
- **IMDG** AEROSOLS, MARINE POLLUTANT
- **14.3 Transport hazard class(es)**

· **DOT**

- **Class** 2.1
- **Label** 2.1

· **ADR**

- **Class** 2 5F Gases.

(Contd. on page 11)

## Safety data sheet

according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 10)

· Label 2.1

· IMDG



· Class 2.1

· Label 2.1

· IATA



· Class 2.1

· Label 2.1

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

· 14.5 Environmental hazards:

Not Regulated

Product contains environmentally hazardous substances: heptane, Distillates (petroleum), hydrotreated light

· Marine pollutant:

Yes

· Special marking (ADR):

Symbol (fish and tree)

· 14.6 Special precautions for user

Symbol (fish and tree)

· Danger code (Kemler):

Warning: Gases.

· EMS Number:

-

F-D,S-U

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1L

· Transport category 2

· Tunnel restriction code D

· UN "Model Regulation": UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

### SECTION 15: Regulatory information

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

· Carcinogenic Categories

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

(Contd. on page 12)

## Safety data sheet according to (EU) 2015 / 830

Revision: April 1, 2024

Trade name: Super Lube® Silicone Aerosol

(Contd. of page 11)

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.  
 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.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
 Press. Gas L: Gases under pressure: Liquefied gas  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

- **Sources**

SDS Prepared by:  
 ChemTel Inc.

(Contd. on page 13)

**Safety data sheet**  
according to (EU) 2015 / 830

Revision: April 1, 2024

**Trade name: Super Lube® Silicone Aerosol**

1305 North Florida Avenue  
Tampa, Florida USA 33602-2902  
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573  
Website: [www.chemtelinc.com](http://www.chemtelinc.com)

(Contd. of page 12)