

<b>Safety Data Sheet</b> according to Appendix II to the Regulation (EC) No. 1907/2006 (REACH) as amended	
<b>LO/31/19</b>	
Date of Issue: 16/12/2019 Revision date: -	Version No.: 1

## Sekcja 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product identifier:

**LOTOS MINERAL SN SAE 15W-40**

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

1.2.1. Identified uses: for use in cars with petrol engines, it can be also used in diesel engines in passenger cars and delivery vans where the CF quality level is required.

1.2.2. Uses advised against: none.

### 1.3. Details of the supplier of the safety data sheet:

LOTOS Oil Sp. z o.o., 80-718 Gdańsk, ul. Elbląska 135

Tel.: +48 58 326 43 00, fax: +48 58 308 84 18

[reach@grupalotos.pl](mailto:reach@grupalotos.pl); [www.lotos.pl](http://www.lotos.pl)

BDO registration number: 000025638

### 1.4. Emergency telephone number:

LOTOS Fire-fighting Unit and Facility Emergency Point of Contact: 58-308-81-99; 58-308-81-09 *available 24h*.

## Sekcja 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture:

Classification in accordance with Regulation (EC) No. 1272/2008 [CLP]:

In accordance with mixture classification criteria as well as on the basis of test results and domain literature analysis the product is not classified as a hazardous mixture.

### 2.2. Label elements:

Labelling in accordance with Regulation (EC) No. 1272/2008 [CLP]:

**EUH208** Contains: benzenesulphonic acid, methy-I, mono-C20-24 branched alkyl derivatives, calcium salts. May produce an allergic reaction.

**EUH210** Safety Data Sheet available upon request.

The product has not been classified as hazardous and does not required additional warning labels.

### 2.3. Other hazards:

The mixture does not comply with PBT or vPvB criteria. There is a risk of burns when handling hot product. Product may cause respiratory tract irritation when inhaled in the form of an oil mist or hot vapours or when ingested. Test results of other similar products have shown that the products have no hazardous effects for eyes or cause only slight irritation.

## Sekcja 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. **Substances**: Not applicable.

3.2. **Mixtures**:

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Number			Concentration [% m/m]	Name	Substance classification in accordance with Regulation No. 1272/2008
of registration	CAS	EC			
mixture*	mixture	mixture	≤9.5	highly refined mineral oil (C15–C50)	Asp. Tox. 1, H304
01-2119657973-23-XXXX	68784-31-6	272-238-5	≤1.10	zinc salts, phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters**	Eye Dam. 1, H318 Aquatic Chronic 2, H411
01-2119488911-28-XXXX	36878-20-3	253-249-4	≤1.10	bis(nonylphenyl)amine	Aquatic Chronic 4, H413
polymer	722503-68-6	none	≤0.55	benzenesulphonic acid, methy-l, mono-C20-24 branched alkyk derivatives, calcium salts	Skin Sens. 1B, H317
01-2119513207-49-XXXX	121158-58-5	310-154-3	<0.032	branched dodecylphenol***	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1A, H360F  M acute = 10 M chronic = 10

\*At least one of the following EINECS numbers is assigned to it: 265-157-1, 265-158-7, 265-169-7. Contains at least one of the substances registered on the basis of the REACH Regulation (EC) No 1907/2006 under the following numbers: 01-2119484627-25-XXXX, 01-2119487077-29-XXXX, 01-2119471299-27-XXXX. Contains at least 3% DMSO extract (IP 346).

\*\*see section 11

\*\*\*see section 12

#### Sekcja 4. **FIRST AID MEASURES**

##### 4.1. **First-aid measure description:**

###### **By inhalation:**

Symptoms: respiratory tract irritation caused by overexposure to vapours, mists or fumes.

Inhalation is unlikely due to low vapour pressure at ambient temperature of the substance. In case of symptoms caused by inhalation of fumes, mists or vapours of product: Move the affected person to a quiet and well ventilated space if safe to do so.

If the affected person is unconscious and:

- If the affected person is not breathing – make sure there are is no respiratory tract obstruction and ensure artificial respiration by trained personnel. If necessary perform cardiac massage and get medical assistance.
- If the affected person is breathing – position the affected person in a recovery position. If necessary administer oxygen.

If breathing difficulty persists consult medical doctor.

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#### **If on skin:**

Symptoms: dry skin. Skin irritation in case of repeated or long term exposure. There is a risk of burns in case of contact with hot product.

Remove contaminated clothing and shoes and safely dispose of them. Wash the contaminated body part in soapy water. Get medical assistance in case irritation, swelling or reddening of skin persists.

When using high pressure devices there is a risk of transcutaneous injection. In case of injuries caused by high pressure immediately get medical help. Do not wait for symptoms to worsen.

Cool mild burns. Keep burned body part under stream of cold water for at least five minutes, until pain subsides. Avoid hypothermia. Do not put ice on burnt area. Carefully remove non-sticking clothing. DO NOT attempt to remove clothing stuck to burnt skin. Cut the fabric off around such areas.

In every case of major burn get medical advice.

#### **Upon eye contact:**

Symptoms: mild irritation. There is a risk of burns in case of contact with hot product.

Rinse carefully with water for several minutes. If present and easy to do, remove contact lenses. Continue rinsing. Get specialist medical assistance in case irritation, blurred vision or swelling persists. If hot liquid is splashed into the eye, immediately cool the eye under cold running water to dissipate the heat. Immediately get medical advice on condition and subsequent treatment of the exposed person.

#### **Ingestion / aspiration:**

Symptoms: few or no symptoms expected. Nausea and diarrhoea possible.

If the product has been ingested always assume that it had also been inhaled. Get specialist medical assistance or send the affected person to a hospital. Do not wait for symptoms to worsen. Do not induce vomiting, to avoid the risk of choking/aspiration. Do not administer anything orally to an unconscious person. In case of vomiting keep head of the exposed person low to avoid ingress of vomit to lungs (aspiration). When vomiting stops position the affected person in a recovery position with legs slightly up.

#### **4.2. Most important symptoms and effects, both acute and delayed:**

Short summary severe and prolonged exposure symptoms and effects: not defined.

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

Clinical indications and medical monitoring information regarding delayed effects: not defined.

### **Sekcja 5. FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media:**

Appropriate extinguishing media:

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- Foam (only trained personnel)
- Water mist (only trained personnel)
- Dry chemical powder
- Carbon dioxide
- Other inert gases (in accordance with regulations)
- Sand or soil

Unsuitable extinguishing media:

Do not direct jet of water at the product on fire; this might cause splashing and spreading of fire. Avoid simultaneous use of foam and water on the same surface, as water destroys foam.

**5.2. Special hazards arising from the substance or mixture:**

Combustion products:

Incomplete combustion often produces a complex mixture of solids and liquids suspended in air and gases including carbon oxide and undefined organic and inorganic compounds.

**5.3. Advice for fire-fighters:**

In case of an extensive fire or a fire in a confined or poorly ventilated space use a full fire-resistant clothing and an overpressure autonomous breathing apparatus with a full mask.

**Sekcja 6. ACCIDENTAL RELEASE MEASURES**

General information:

Stop or contain the leak at source, if safety rules allow. Avoid direct contact with the released material. Stand against the wind. With the exception of small leaks, if possible, consult feasibility of each activity with an appropriately trained and competent rescue operation leader. If safe to do so, eliminate all sources of ignition (such as electricity, sparks, fire, torches). If necessary inform competent authorities in accordance with applicable laws.

**6.1. Personal precautions, protective equipment and emergency procedures:**

**6.1.1. For non-emergency personnel:**

Keep non-rescue unit personnel away from the leak site. Inform rescue unit personnel.

**6.1.2. For rescue unit personnel:**

Clothing and equipment:

Small leaks: normally standard anti-static working clothes are sufficient. Excessive leaks: a full, chemical resistant and anti-static suit. Work gloves providing effective protection from chemical agents, especially aromatic hydrocarbons.

Note: Polyvinyl acetate gloves are not waterproof, and cannot be used in the event of an emergency. Protective helmet. Antistatic, slip-resistant protective shoes (long or short). Protective goggles and/or face protection if eye splashing or other form of contact with eyes is possible or anticipated. Respiratory tract protection is necessary only in special cases (e.g. mist formation). Depending on the amount of spilt substance and anticipated exposure level, a half or full respiratory mask with

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combined dust/organic vapour filters or an autonomous breathing apparatus may be used. If complete evaluation of the situation is impossible, or there is a risk of oxygen deficiency only the autonomous breathing apparatus may be used.

**6.2. Environmental precautions:**

Prevent release of the product to drains, rivers and other water reservoirs or underground areas (such as tunnels, basements).

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

**6.3.1. Guidelines on containment of the leak:**

On ground:

If necessary surround the product with a protective embankment made of dry soil, sand or other non-flammable material. Excessive leaks can be carefully covered with foam (if available) to avoid risk of fire. Do not use direct jets. Ensure proper ventilation inside buildings and in confined spaces.

On water:

In case of small leaks to closed waters (i.e. in ports) secure the product with floating barriers or other equipment. Collect spilt product using special floating absorbents. If possible contain large spill in open waters using floating barriers or other mechanical means. If the above is not possible, contain the leak and collect the product by skimming or other available mechanical means. Usage of dispersing agents should be approved by a specialist and (if necessary) by local authorities.

**6.3.2. Guidelines on cleaning up of the leak:**

On ground:

Collect spilt product using appropriate, non-flammable materials. Collect unbounded product using available means. Collect the product and other contaminated materials to appropriate containers or tanks for safe retrieval or disposal. In case of soil contamination collect the contaminated layer and treat it in accordance with local regulations.

On water:

Collect the retrieved product and other materials to appropriate containers or tanks for safe retrieval or disposal.

**6.3.3. Improper contamination containment methods: not defined**

**6.4. References to other sections:**

Additional information on personal protection equipment – see Section 8.

Additional information on waste – see Section 13.

**Sekcja 7. ~~HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES~~**

**7.1. Precautions for safe handling:**

**7.1.1. Guidance on safe use:**

Comply with general OHS and fire-fighting rules and guidelines while handling the product. Ensure that all applicable regulations concerning facilities for handling and storage of flammable products are complied with. Storage away from sources of sparks/open fire or hot surfaces is recommended. – Do not smoke. Use and store only

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outdoors or in a well ventilated space. Avoid contact with the product. Avoid releasing to the environment.

7.1.2. General OHS guidance:

Ensure proper housekeeping. Do not allow accumulation of contaminated materials in the workplace; do not keep them in pockets. Keep away from foodstuff and drinks. Do not eat or drink and do not smoke when handling the product. After working with the substance carefully wash hands. Take off contaminated clothing after shift.

7.2. **Conditions for safe storage, including any incompatibilities:**

Protect against static charges. Do not pour large amounts of hot product rapidly (to avoid splashing). Avoid contact with skin. Avoid inhaling vapours/mist. Do not ingest the product. Avoid slipping hazards. If necessary use proper personal protection equipment. For more information about the protection equipment see section 8.2.

Laydown area layout, tank structure and equipment as well as working procedures have to meet the requirements of applicable European, national and local regulations. Installations for storing the substance have to be provided with suitable embankments to protect soil and water from contamination in case of leak or spillage. Cleaning, inspection and maintenance of the storage tanks may only be done by suitably equipped and trained personnel and be carried out only in accordance with national, local and intra-company regulations. Keep away from oxidants.

Recommended tank wall and lining material is mild steel including stainless steel. Improper materials: some synthetic materials may not be suitable for the production or lining of container depending on the specification and planned use of the material. Confirm compatibility with the manufacturer.

If the product is supplied in containers: Keep only in original container or in a container suitable for this kind of product. Keep the containers tightly sealed and appropriately labelled. Empty containers can contain flammable product residues. Do not weld, spot weld, drill, cut or burn empty containers, unless they have been properly cleaned.

7.3. **Specific end use(s):** none.

Sekcja 8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1. **Control parameters:**

8.1.1. MAC exposure limit values of the substance:

	MAC [mg/m <sup>3</sup> ]	IMAC [mg/ m <sup>3</sup> ]	TMAC [mg/m <sup>3</sup> ]	Notes	Type
Highly refined mineral oils excluding cutting fluids – inhalable fraction	5	-	-		MAC PL

8.1.2. Information on currently recommended monitoring procedures:

Use applicable air purity monitoring regulations and for example the following Polish standards: PN-Z-04008-7:2002 "Principles of air sampling in work place and interpretation of results".

8.1.3. DNEL and PNEC values: No data available

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## 8.2. Exposure controls:

### 8.2.1. Appropriate engineering controls:

Use general room ventilation and local exhaust ventilation at the source of vapour formation. General ventilation air intakes should be located in the upper part of the room and at ground level, and local exhaust ventilation at source level or below it. Exhaust ventilation is compulsory if mists or vapours are created.

### 8.2.2. Individual protection measures, such as personal protective equipment:

a) **eye/face protection:** No special protection is required, though it is a good practice to use protective goggles, and if splashing is possible – full head, face and neck protection.

b) **skin protection:** To minimize potential risk use of protective equipment, oil resistant gloves (e.g. made of nitrile) and work shoes suitable for handling hot products is recommended.

c) **respiratory track protection:** No special protection measures are required, but avoid inhaling product vapours. If there is a risk of contact with concentrated vapours or a risk of oil mist formation use a face mask with type A absorber.

d) **heat hazard:** Gloves should be heat-resistant including heat insulation, if contact with hot product is possible or expected.

### 8.2.3. Environmental exposure controls No data available

## Sekcja 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. **Basic physical and chemical properties:**

Appearance	liquid, amber to brown in colour
Odour	characteristic to oils
Odour threshold	no data available
pH	no data available
Melting/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	min. 210 °C (open crucible)
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	not standardized (given in certificates)
Solubility	soluble in most organic solvents
Partition coefficient n-octanol/water (log/Kow)	no data available
Self-ignition temperature	no data available
Decomposition temperature	no data available
Kinematic viscosity	13.5–16.3 mm <sup>2</sup> /s at 100 °C
Explosive properties	no data available
Oxidising properties	no data available

### 9.2. **Other information:** No data available

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#### Sekcja 10. **STABILITY AND REACTIVITY**

- 10.1. **Reactivity:** Does not show increased reactivity in normal usage.
- 10.2. **Chemical stability:** The product is stable in recommended usage conditions.
- 10.3. **Possibility of hazardous reactions:** Does not take part in hazardous chemical reactions in normal usage conditions.
- 10.4. **Conditions to avoid:** In explosive atmosphere avoid sources of ignition and heat.
- 10.5. **Incompatible materials:** Strong oxidants.
- 10.6. **Hazardous decomposition products:** At high temperatures the product may undergo thermal decomposition. Properties of its products depend on decomposition conditions. The following gasses and vapours may be produced: carbon, sulphur, nitrogen oxides and hydrogen sulphide as well as hydrocarbons.

#### Sekcja 11. **TOXICOLOGICAL INFORMATION**

##### 11.1. **Information on toxicological effects**

###### a) Acute toxicity

Based on available data classification criteria are not met.

###### b) Skin corrosion or irritation

Based on available data classification criteria are not met.

###### c) Serious eye injury / eye irritation

Based on available data classification criteria are not met. The available data for similar products indicates that one of the ingredients of this products acts in reverse to zinc salts – it reduces eye irritation. Therefore the product is not classified as irritating to eyes.

###### d) Sensitizing to respiratory system and skin

Based on available data classification criteria are not met. Contains: *benzenesulphonic acid, methy-l, mono-C20-24 branched alkyk derivatives, calcium salts*. May produce an allergic reaction.

###### e) Mutagenic effects on reproductive cells

Based on available data classification criteria are not met.

###### f) Carcinogenic effects

Based on available data classification criteria are not met.

###### g) Toxicity for reproduction

Based on available data classification criteria are not met.

###### h) Specific target organ toxicity – single exposure.

Based on available data classification criteria are not met.

###### i) Specific target organ toxicity – repeated exposure.

Based on available data classification criteria are not met.

###### j) Aspiration hazard

Based on available data classification criteria are not met.

#### Sekcja 12. **ECOLOGICAL INFORMATION**

- 12.1. **Toxicity:** Based on available data classification criteria are not met.



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This product contains contaminant in the form of branched dodecylphenol which is very toxic for aquatic organisms. The component containing the contaminant has been tested and it is not toxic for aquatic organisms. For this reason branched dodecylphenol should not be taken into account when calculating product classification concerning aquatic toxicity.

- 12.2. **Persistence and degradability:** No data on ecotoxicity of the mixture.
- 12.3. **Bioaccumulative potential:** No specific data available. Bioconcentration factor (BCF) has not been assigned. Studies show that BCF factor for some petroleum-derived products is low due to low solubility in water.
- 12.4. **Mobility in soil:** The product accumulates on water surface and in large amount limits transfer of oxygen to water.
- 12.5. **Results of PBT and vPvB assessment:** No data available
- 12.6. **Other adverse effects:** The product does not contain substances causing ozone layer depletion.

#### Sekcja 13. DISPOSAL CONSIDERATIONS

Note: Empty containers can contain flammable product residues. Do not weld, spot weld, drill, cut or burn empty containers, unless they have been properly cleaned.

##### 13.1. **Waste treatment methods:**

Do not dispose of waste to drains, do not allow contamination of surface and ground waters or soil. Use containers resistant to hydrocarbons, sealed and labelled.

Degraded or not usable (used) product should be sent to the nearest used oil collection point.

External waste processing and recycling shall be done in accordance with local and/or national regulations. Single use packaging should be treated in accordance with applicable regulations on handling packaging waste. Multiple use packaging can be reused after cleaning.

Handle waste in accordance with applicable regulations.

#### Sekcja 14. TRANSPORTATION INFORMATION

##### **Type of transport: Land transport (ADR/RID):**

- 14.1. **UN number:** not applicable
- 14.2. **UN proper shipping name:** not applicable
- 14.3. **Transport hazard class(es):** not applicable
- 14.4. **Packaging group:** not applicable
- 14.5. **Environmental hazards:** not applicable
- 14.6. **Special precautions for user:** not applicable
- 14.7. **Transport in bulk according to Annex II of MARPOL convention and the IBC Code:** not applicable.

The product is not classified as hazardous in accordance with ADR regulations.

#### Sekcja 15. REGULATORY INFORMATION

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

- 15.1.1. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (EU OJ L No. 396 of 30 December 2006 and corrigendum EU OJ L No. 136 of 29 May 2007, as amended).
- 15.1.2. Commission Regulation (EU) No. 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (EU OJ L No. 132 of 29 May 2015).
- 15.1.3. Act of 25 February 2011 on chemical substances and mixtures (consolidated text: Journal of Laws of 2019, item 1225, as amended).
- 15.1.4. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of the 16 December 2008 on classification, labelling and packing of substances and mixtures, amending and repealing Directives 67/548 EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (EU OJ L No. 353 of 31 December 2008, as amended).
- 15.1.5. Act of 14 December 2012 on waste (consolidated text: Journal of Laws of 2019, item 701, as amended).
- 15.1.6. Decree of the Minister of Economy of 5 October 2015 on detailed method for handling waste oils (Journal of Laws 2015.1694 as amended).
- 15.1.7. Decree of the Polish Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum level of concentration of hazardous substances in work area (Journal of Laws of 2018, item 1286, as amended).
- 15.1.8. European treaty on international road transport of hazardous good (ADR)
- 15.2. **Chemical safety assessment:** Not performed for mixture.

**Sekcja 16. OTHER INFORMATION**

**Revision description:** Not applicable.

**Mixture classification:**

With regard to hazards to health and the environment the product has been classified on the basis of data available for the ingredients.

**Sources of key data used to prepare the Safety Data Sheet and additional reading:**

This Safety Data Sheet was prepared in accordance with rules set forth in REACH regulation using information from registration, technical documentation, available literature produced among other by international organizations founded for this purpose and our best judgement. Physicochemical analysis is regularly performed by LOTOS S.A. Group.

**Bibliography:**

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- [1] Applicable Polish laws on chemical substances and mixtures.  
 [2] Technical conditions.  
 [3] Safety data sheets of hazardous and non-hazardous substances/mixtures.

**List of abbreviations:**

PBT – Persistent Bioaccumulable Toxic; vPvB – Very Persistent, Very Bioaccumulative;  
 DNEL – Derived No Effect Level; PNEC – Predicted No Effect Concentration; MAC – maximum allowable concentration; IMAC – Interim maximum allowable concentration; TMAC – threshold maximum allowable concentration;  
 Eye Dam. 1 – Serious eye injury / eye irritation, hazard category 1; Aquatic Chronic 2 – Hazardous to aquatic environment – chronic hazard, category 2; Aquatic Chronic 4 – Hazardous to aquatic environment – chronic hazard, category 4; Skin Sens. 1B – Skin sensitization, hazard category 1B; Aquatic Acute 1 – Hazardous to aquatic environment, acute hazard, category 1; Aquatic Chronic 1 – Hazardous to aquatic environment, chronic hazard, category 1; Skin Corr. 1C – Skin corrosion/irritation, hazard category 1C; Repr. 1A – Toxicity for reproduction, hazard category 1A; Asp. Tox. 1 – Aspiration hazard, hazard category 1; H318 – Causes serious eye damage.; H411 – Toxic to aquatic life with long lasting effects; H413 – May cause long lasting harmful effects to aquatic life.; H317 – May cause an allergic skin reaction.; H400 – Very toxic to aquatic life.; H410 – Very toxic to aquatic life with long lasting effects.; H314 – Causes severe skin burns and eye damage.; H360F – May damage fertility.; H304 – May be fatal if swallowed and enters airways.;

**DISCLAIMER**

Information in this Safety Data Sheet reflect our best knowledge at the time of its publication. End users and distributors, please note that we are not liable for use of our product in ways other than recommended. Health and safety precautions and guidelines on environmental protection given in this Safety Data Sheet are not necessarily suitable for all individuals and situations. The user is responsible for evaluation of the situation and usage of this product in compliance with all applicable laws and regulations. Laws listed in the Safety Data Sheet do not release the user from compliance with regulations applicable to their business.

This document has been prepared by LOTOS S.A. Group.

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SUPPLY CHAIN**