

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

Factory : "IYENGAR ESTATE", Sy.No.63/1,2A,2B. Tambaram - Sriperumbudur Main Road, Navalur, Sriperumbudur, Tamilnadu - 602 105. INDIA

Office: "IYENGAR HOUSE", No.9 Arkeeshwarar Colony Main Road, Lakshmiapuram, Chromepet, Chennai - 600 044. INDIA

Phone : +91 44 65855819 / +91 7667620805

E-Mail : zshivira@jangroupindia.com

Web : www.zshiviraindia.com

PROFORMA INVOICE

To: VULUA TANNERY LIMITED PLOT NO YS3 + YS4 + YS5 BSCIC TANNERY IND ESTATE AREA SAVAR, DHAKA, BANGLADESH -1209 Contact Person : Mr.Taj Cell no. 0088 01819211614 E-MAIL : tenigram.sl@gmail.com TIN NO : 210-200-2284 VAT REG NO: 000611766-0403 E-TIN NO: 339435597063		Proforma Invoice No. Date 270524-01 DT 27.05.2024					
		Buyers Contract No. NIL		Buyers Order No. Z6/2024/27.05.2024			
		Buyer Contract No _____		Place of Receipt _____			
		Vessel/Flight No: _____		Port of Loading CHENNAI		Country of Origin INDIA	
Port of Discharge CHITTAGONG SEAPORT		Place of Delivery CHITTAGONG SEAPORT		Final Destination CFR CHITTAGONG SEAPORT			
Marks & Nos./ Container No:		No: & Kind of Pkgs		Description of Goods (Leather Chemicals)			
		Quantity Net Kgs		Rate IN USD			
				Amount IN USD			
Marks TENIGRAM 02/2024		S.No. PACK 1) 160X25 KGS 2) 320X25 KGS 3) 160X25 KGS 4) 160X25 KGS		TENSYN R7 (Dicyandiamide Syntan) TENSYN TAK (Neutralising Syntan) TENSYN NN (Dispersing Syntan) TENSYN OS (Replacement Syntan)			
Total Bags : 800 Net Wt: 20000 KGS Gross Wt: 21000 KGS		CFR VALUE 18400.00		4000.00 0.950 3800.00 8000.00 0.900 7200.00 4000.00 0.900 3600.00 4000.00 0.950 3800.00 _____ 18400.00			
		"SYNHETIC ORGANIC TANNING SUBSTANCES" HS CODE 32021000					
		Material Details: Quality: Standard Quality for 100% Export Oriented Leather Industry. Brand Name: TENIGRAM SL. Date of Production: Within fifteen days after receiving L/C. Packaging: 100% Export Standard Packaging. P/I Validity: 90 Days					
		FOB VALUE 17800.00 ADD FREIGHT 600.00 CFR VALUE 18400.00					
		<u>Our Bankers:</u> ICICI BANK WEST TAMBARAM BRANCH AYYASAMY STREET, WEST TAMBARAM, CHENNAI 600045.INDIA Account No : 139305003523 SWIFT : ICICINBBCTS					
		Amount Chargeable		20000.00 18400.00			

(in words) US DOLLARS EIGHTEEN THOUSAND FOUR HUNDRED ONLY

Declaration

We declare that this Invoice shows the actual price of the goods described and that all particulars are true and correct.

For ZSIVIRA CHEMIE MERK PRIVATE LIMITED





Authorised Signatory

Reprint From MFA-0000-000000

*** Nacked Message ***

Instance Type and Transmission

	Notification
NAK (Transmission) of Original sent to SWIFT (NAK T17038)	Network Delivery Status: Network Nack T17038
NAK	Priority/Delivery: Normal
NAK	Message Input: 1731
NAK	Reference: 240613BSONBDDHBBAA/SM-24/805

Message Header

Swift Input: FIN 700 Issue of a Documentary Credit
Sender: BSONBDDHBBAA
SONALI BANK PLC
BANGA BANDHU AVENUE CORPORATE BRANCH
DHAKA 89
Receiver: ICICINBBCTS
ICICI BANK LIMITED
GLOBAL TRADE SERVICES UNIT-MUMBAI
MUMBAI IN
MUR: BBA/SM-24/805

Message Text

F27: Sequence of Total
Number: 1/
Total: 1
F40A: Form of Documentary Credit
IRREVOCABLE
F20: Documentary Credit Number
033824010096
F31C: Date of Issue
240613 2024 Jun 13
F40E: Applicable Rules
Applicable Rules: UCP LATEST VERSION
F31D: Date and Place of Expiry
Date: 240825 2024 Aug 25
Place: IN INDIA
F50: Applicant
VULUA TANNERY LIMITED
PLOT NO.YS3,YS4,YS5,
BSCIC TANNERY ESTATE AREA
HEMAYETPUR, SAVAR, DHAKA, BANGLADESH.
F59: Beneficiary
Name and Address:
ZSIVIRA CHEMIE MERK PRIVATE LIMITED
SEE DETAILS
IN FIELD F47A(16)
F32B: Currency Code, Amount
Currency: USD US DOLLAR
Amount: 18400, #18.400,#
F41D: Available With ... By ... - Name and Address - Code
Name and Address: ANY BANK IN INDIA
Code: BY NEGOTIATION
F42C: Drafts at ...

AT SIGHT.

F42A: Drawee - Party Identifier - Identifier Code
Identifier Code:

BSONBDDHBBA

SONALI BANK PLC
BANGA BANDHU AVENUE CORPORATE BRANCH
DHAKA BD

F43P: Partial Shipments
ALLOWED

F43T: Transshipment
ALLOWED

F44E: Port of Loading/Airport of Departure
CHENNAI SEA PORT IN INDIA.

F44F: Port of Discharge/Airport of Destination
CHATTOGRAM SEAPORT IN BANGLADESH.

F44C: Latest Date of Shipment
240805 2024 Aug 05

F45A: Description of Goods and/or Services
SYNTHETIC ORGANIC TANNING SUBSTANCE
H.S.CODE:3202.10.00

- 01.TENSYN R7(DICYANDIAMIDE SYNTAN)
QTY:4000.00 KGS,UNIT PRICE USD0.950 PER KG
- 02.TENSYN TAK(NEUTRALISING SYNTAN)
QTY:8000.00 KGS,UNIT PRICE USD0.900 PER KG
- 03.TENSYN NN (DISPERSING SYNTAN)
QTY:4000.00 KGS,UNIT PRICE USD0.900 PER KG
- 04.TENSYN OS(REPLACEMENT SYNTAN)
QTY:4000.00 KGS,UNIT PRICE USD0.950 PER KG

COUNTRY OF ORIGIN:INDIA.

CFR CHATTOGRAM,BANGLADESH.

SPECIFICATION,QUALITY,QUANTITY,PACKING,MARKING,RATE AND ALL
OTHER DETAILS OF THE GOODS ARE AS PER BENEFICIARY PROFORMA
INVOICE NO.270524-01 DATE:27.05.2024.

F46A: Documents Required

BENEFICIARY'S DRAFT(S) FOR 100 PCT INVOICE VALUE TO BE DRAWN ON
ISSUING BANK ACCOMPANIED BY THE FOLLOWING DOCUMENTS:

- 01.SIGNED COMMERCIAL INVOICE IN ONE ORIGINAL AND 6(SIX) COPIES
CERTIFYING MERCHANDISE ARE OF INDIA ORIGIN SHOWING
BENEFICIARY'S PROFORMA INVOICE NO.270524-01 DATE:27.05.2024.,
IRC NO.E-39829(OLD),260326120127220(NEW),E-TIN 339435597063
AND VAT REG.NO.000611766-0403.FOB VALUE AND FREIGHT CHARGES
MUST BE MENTIONED SEPARATELY IN INVOICE.
- 02.FULL SET ORIGINAL PLUS 3(THREE) COPIES ''SHIPPED ON BOARD''
OCEAN BILL OF LADING TO BE ISSUED OR ENDORSED TO THE ORDER OF
SONALI BANK LIMITED,BANGA BANDHU AVENUE CORPORATE BRANCH,
DHAKA,BANGLADESH MARKED ''FREIGHT PREPAID'' MENTIONING FULL
DESCRIPTION OF GOODS,PROFORMA INVOICE NO.VAT REG.NO.
NOTIFY:APPLICANT AND ISSUING BANK GIVING FULL NAME AND
ADDRESS.
- 03.SIGNED DETAILED PACKING LIST IN ONE ORIGINAL AND 6(SIX)COPIES.
- 04.CERTIFICATE OF ORIGIN TO BE ISSUED BY LOCAL CHAMBER OF
COMMERCE OR ANY COMPETENT AUTHORITY/GOVT.APPROVED AUTHORITY
IN ONE ORIGINAL AND 2(TWO)COPIES.
- 05.ONE COMPLETE SET OF NON-NEGOTIABLE SHIPPING DOCUMENTS TO BE
SENT TO THE APPLICANT BY COURIER/E-MAIL WITHIN FIFTEEN DAYS

FROM SHIPMENT AND CERTIFICATE TO THIS EFFECT ALONG WITH RELATED COURIER RECEIPT/E-MAIL COPY TO ACCOMPANY THE ORIGINAL DOCUMENTS.

06. INSURANCE BUYER'S CARE. ALL SHIPMENT UNDER THIS CREDIT MUST BE ADVISED BY E-MAIL TO THE APPLICANT E-MAIL: vuluabd@gmail.com), ISSUING BANK E-MAIL: bbavecorp@sonalibank.com.bd AND TO INSURANCE CO: ISLAMI COMMERCIAL INSURANCE CO. LTD, MALIBAGH BRANCH, 80/A/1, SIDDESHWARI CIRCULAR ROAD, SHAHJALAL TOWER (2ND FLOOR) MALIBAG, DHAKA-1217, PH: 02-9357413, FAX NO: 88-02-47113791, E-MAIL: iciclbd@gmail.com WITHIN FIFTEEN DAYS OF SHIPMENT AS FOLLOWS:

- A) INSURANCE COVER NOTE NO. ICI/MLB/MC-0223/06/2024 DT. 13.06.2024
B) OUR CREDIT NO.:
C) APPLICANT'S NAME:
D) VALUE OF GOODS SHIPPED:
E) BILL OF LADING NO. AND DATE:
F) PORT OF LOADING AND DESTINATION:
G) CARTON NO. OR CONTAINER NO. IF ANY:

A COPY OF SUCH ADVICE MUST ACCOMPANY WITH THE DOCUMENTS.

F47A: Additional Conditions

01. BENEFICIARY MUST CERTIFY ON THE INVOICE THAT THE GOODS SHIPPED ARE STRICTLY IN ACCORDANCE WITH THE TERMS OF THE RELATED PROFORMA INVOICE.
02. SHIPMENT/TRANSHIPMENT MUST COMPLY BANGLADESHI RULES AND REGULATIONS AND UN SANCTION.
03. USD50,00 PLUS SWIFT CHARGES FOR EUR30,00 CHARGED FROM EACH SET OF DISCREPANT DOCUMENTS AND OUR PAYMENT CHARGES USD20,00 FOR EACH SET OF DOCUMENT ARE ON BENEFICIARY'S ACCOUNT.
04. OUR CREDIT NUMBER AND DATE MUST BE QUOTED IN ALL DOCUMENTS.
05. EACH PRESENTATION UNDER THIS CREDIT MUST BE NOTED ON THE REVERSE SIDE OF THE CREDIT BY THE NOMINATING BANK.
06. ALL DOCUMENTS MUST BE FORWARDED BY COURIER SERVICE IN 2 (TWO) LOTS AT OUR ADDRESS AS FOLLOWS:
SONALI BANK PLC, BANGABANDHU AVENUE CORPORATE BRANCH, 28, BANGABANDHU AVENUE, DHAKA-1000, BANGLADESH.
07. ALL DOCUMENTS TO BE PREPARED IN ENGLISH LANGUAGE.
08. COUNTRY OF ORIGIN TO BE MARKED IN ALL PACKAGES.
09. SHORT FORM AND BLANK BACK BILL OF LADING NOT ACCEPTABLE.
10. ALL DOCUMENTS SHOULD BE DATED.
11. IMPORTER'S NAME ADDRESS AND TIN MUST EITHER BE PRINTED OR WRITTEN IN INDELETABLE INK ON THE BIGGEST PACKAGE/BOX OF THE SHIPMENT.
12. GOODS IMPORT UNDER BOND LICENCE TO BE MARKED IN ALL DOCUMENTS.
13. SONALI BANK PLC'S BIN NO. 000000063-0002 SHOULD BE MENTIONED IN INVOICE, BILL OF LADING AND OTHER DOCUMENTS.
14. THIRD PARTY DOCUMENTS ARE NOT ACCEPTABLE.
15. DOCUMENTS DATE EARLIER THAN L/C DATE IS NOT ACCEPTABLE.
16. BENEFICIARY ADDRESS: IYENGAR ESTATE, SY. NO. 63/1, 2A, 2B. TAMBARAM-SRIPRUMBDDUR MAIN ROAD, NAVALUR, SRIPERUMBUDUR, TAMILNADU-602 105. INDIA

F71D: Charges

ALL CHARGES OUTSIDE BANGLADESH AND CHARGES FOR F47A(03) ARE ON BENEFICIARY'S ACCOUNT.

F48: Period for Presentation in Days

Days: 21

Narrative: /WITHIN THE VALIDITY OF THE LC.

F49: Confirmation Instructions

WITHOUT

F78: Instructions to the Paying/Accepting/Negotiating Bank

UPON RECEIPT OF DOCUMENTS COMPLYING WITH THE L/C TERMS WE WILL

PAY AS PER NEGOTIATING/COLLECTING BANK'S INSTRUCTION, PLEASE
PROVIDE US YOUR ACCOUNT DETAILS.

THIS CREDIT IS SUBJECT TO UNIFORM CUSTOMS AND PRACTICE FOR
DOCUMENTARY CREDIT (2007 REVISION) ICC PUBLICATION NO. 600,
REGARDS.

Message Trailer

{CHK:7F5486CFF4BC}

PKI Signature: MAC-Equivalent

Section 1 : Identification of the substance / mixture of the Company/Undertaking

1.1 PRODUCT IDENTIFIER

Trade Name : **TENSSYN R7**
Substance Name : Synthetic Organic Tanning Substance

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Auxiliary for leather industry.

Recommended restriction of use : No further relevant information available.

1.3 Details of Supplier of the Safety Data Sheet :

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

"Iyengar House" No.9.Arkeeshwarar Colony Main Road
Lakshmipuram, Chromepet, Chennai – 600 044. INDIA
Information provided by: Leather Chemical Division Tel : +91 9940 333 449

1.4 EMERGENCY CONTACT NUMBER : +91- 76676 20808 E MAIL : zshivira@jangroupindia.com

Section 2 : HAZARDS IDENTIFICATION

2.1 Classification of Substance of mixture

Blend of Condensate based on urea, dicyandiamide, formaldehyde with aromatic sulfonic acid condensate & Kaolin.

Classification according to Regulation (EC) No 1272/2008

No Need for classification according to GHS criteria for this product.

2.2 Label elements

This product does not require a hazard warning label in accordance with Globally Harmonized System (GHS) criteria.

Hazard Description : Not Applicable

2.3 Other Hazards

Not required

Section 3 : Composition / Information on Ingredients

Chemical Characterization : Mixtures

Composition Information :

Blend of Condensate based on urea, dicyandiamide, formaldehyde with aromatic sulfonic acid condensate & Kaolin.

Ingredient	CAS No.
Dicyandiamide formaldehyde polymer	26591-12-8
Kaolin	14807-96-6

Description : Retanning agent for Leather Tanning

Hazardous Ingredients : VOID

Dangerous Components : VOID

Section 4 : First Aid Measures

4.1 Description of First Aid Measures

General Information

Remove contaminated soaked clothing immediately and dispose of safely.
In the event of symptoms refer for medical treatment.

Inhalation

Remove the casualty into fresh air and keep him / her calm.
Refer to Medical treatment.

Skin Contact

In case of contact with skin wash off immediately with soap and water.

Eye Contact

In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice
Immediately.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5 : First Aid Measures

5.1 Extinguishing Media

Suitable extinguishing media :

Water

Alcohol-resistant foam

Dry Powder

Carbon dioxide

Unsuitable extinguishing Media :

No further relevant information available.

5.2 Special Hazards arising from the substance or mixture

In the event of fire the following can be released :

Harmful Vapours

Evolution of fumes/fog. The substance/mixture mentioned can be released in case of fire.

5.3 Advice for Fire Fighters

Special Protective equipment :

Wear a self-contained breathing apparatus. and full protective clothing when fighting chemical fires.

Fight larger fire with water or alcohol resistant foam spray.

Further additional information :

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Do not inhale explosion and / or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures :

Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not discharge into the drains/surface water / ground waters.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material. E.g. General Purpose binder.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

Observe Section 7 of the Safety Data Sheet
Observe Section 8 of the Safety Data Sheet
Observe Section 13 of the Safety Data Sheet

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary.

Information about fire and explosion protection :
No special measures necessary.

General Information:

Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Observe section 6 of the Safety Data Sheet.
Observe Section 8 of the Safety Data Sheet

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by store rooms and receptacles :

No special measures necessary.

Information about storage in one common storage facility:

No further relevant information available.

Further information about storage conditions :

No further relevant information available.

7.3 Specific end use(s)

Intended to be used in leather tanning as tanning auxiliary.

Further Information about specific end use :

No further relevant information available.

8. EXPOSURE CONTROLS AND 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 :

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information : The lists valid during the making were used as basis.

8.2 Exposure Controls

Components with workplace control parameters

Formaldehyde, 50-00-0; (Content (W/W): < 0.05 %)

CLV 0.3 ppm (ACGIHTLV)

TWA value 1.5 mg/m³ ; 1.0 ppm (OEL (IN))

STEL value 3 mg/m³ ; 2 ppm (OEL (IN))

Personal Protective Equipment/ General protective and hygiene measures

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Respiratory Protection :

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand Protection :

Chemicals resistant protective gloves (EN374)

Suitable materials also with prolonged, direct contact (Recommended : Protective Index 6, corresponding > 480 minutes of permeation time according to EN 374 part 3 : Level 6): Example : Nitrile Rubber NBR (0.4mm), Chloroprene rubber (0.5mm), Polyvinylchloride (0.7mm) and other specifically available chemical protection gloves.

Supplimentary Information :

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

Eye Protection :

Safety glasses with side-shields (Frame Goggles e.g. EN166)

Body Protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form

pH – value (100g/l) at 25°C

Colour

Odour

Odour threshold

Powder

7.0 – 9.0

Off-White to Beige

Product Specific

No applicable information available

Change in Condition	
Melting Point/Freezing Point	>200°C
Initial boiling point and boiling range	>190°C
Flash point	>100°C (ASTM D92)
Flammability(solid, gaseous)	Not applicable
Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Auto Ignition Temperature	Product is not self igniting
Explosive Properties	Not Explosive
Explosion Limits:	
Lower	Not Determined
Upper	Not Determined
Vapour Pressure	Not Determined
Density	Not Determined
Relative Density	Not Determined
Vapour Density	Not Determined
Evaporation Rate	Not Determined
Solubility in Water	Soluble completely
Partition coefficient :n-octanol/water	Not Determined
Viscosity dynamic / kinematic	Not Determined

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated

10.2 Chemical Stability

Thermal decomposition / conditions to be avoided :

No decomposition if used and stored according to specifications.

10.3 Possibility of Hazardous reactions

Reacts with various metals

10.4 Conditions to avoid : No further relevant information available

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products : No Hazardous decomposition products known

SECTION 11. TOXICOLOGICAL PROPERTIES

11.1 Information on toxicological effects :

Acute toxicity:

Harmful if swallowed

Experimental / Calculated data

LD50 values relevant for calculation >2.000 mg/kg

Primary Irritant Effect:

Skin Corrosion / irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation and damage if not treated properly.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

Germ Cell Mutagenicity : Based on the available data the classification criteria are not met.

Carcinogenicity : Based on the available data the classification criteria are not met.

Reproductive toxicity : Based on the available data the classification criteria are not met.

STOT-Single exposure: Based on the available data the classification criteria are not met.

STOT –repeated exposure :

Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure : Inhalation

Aspiration Hazard: Based on the available data the classification criteria are not met.

SECTION 12-ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity : LC50 >10mg/l

12.2 Data on elimination (persistence and degradability)

General Information : Based on available data no further relevant information available

12.3 Bio accumulative potential

Significant accumulation in organisms is not to be expected.

Discharge into the environment must be avoided.

12.4 Mobility on Soil :

Assessment transport between environmental compartments :

Adsorption in soil : No relevant data available.

Additional ecological information :

This product has not been tested. The statement on ecotoxicology have been derived from the properties of the individual components.

SECTION 13 . DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods :

Recommendations :

Can be taken to an incineration plant, if relevant regulations in force are being observed and, if necessary, after consulting the waste disposal management agency, respectively the relevant authorities.

Do not allow product to reach the drainage.

Contaminated / Uncleaned Packaging :

Packaging are to be emptied as far as possible and may be reused after appropriate cleansing. If Packagings cannot be cleaned, they are to be disposed of in the same manner as the product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number	Not Applicable
14.2 UN Proper shipping name	Not Applicable
14.3 Transport Hazard Classes	Not Applicable
14.4 Packing Group	Not Applicable
14.5 Environmental Hazards	Not Applicable
14.6 Special Precautions for user	None Known
14.7 Transport in bulk according to Annex II of MARPOL 73/78 Aand IBC code :	Not required

SECTION 15. REGULATORY INFORMATION

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

Substance of very high concern (SVHC) according to REACH, Article 57 : Not required

1005/2009/EC (on substances that deplete the ozone layer) : Not Required

850/2004/EC (On persistent Organic Pollutants) : Not Required

649/2012/EU (Concerning the export and import of hazardous chemicals) : Not Required

2012/18/EU (on the control of major accident hazards involving dangerous substances) :
Not Required

Water Hazard Class (FRG) : 1

Storage Class (TRGS 510) (FRG) : 10

15.2 Chemical Safety Assessment :

A Chemical Safety Assessment has not been carried out as chemical safety assessments are not necessary for mixtures.

SECTION 16. OTHER INFORMATION

The information on this safety data sheet is based on our present state of knowledge. The data supplied and recommendations can not be taken as a guarantee on specific properties of the products described or their suitability for a particular application. As the use conditions of the product are out of our company control, it is responsibility of the user to determine the safety of the use condition. Existing acts, rules and regulations must be observed by the recipient of our products under his / her / their own responsibility. The product is intended to be used in Leather Industry .



ZSIVIRA

TENSYN R7

Dicyandiamide Condensation Syntan

Chemical composition	<i>Dicyandiamide condensation product</i>
Solids	<i>97 %</i>
Appearance	<i>Pale Yellow Brown powder</i>
pH - value 1 : 10	<i>7.0 – 9.0</i>
Charge	<i>Anionic</i>
Shelf life	<i>Up to 1 year at temperatures between 5 and 40° C.</i>
Dilution	<i>Added Undiluted</i>

Field of application :

Re-tanning and filling of chrome tanned and semi-chrome leathers

Properties :

- ***Fills the loose parts of the leather like shoulder, belly & flanks.***
- ***Provides even fullness throughout the leather.***
- ***Good Light fastness.***
- ***Produce soft leather with a full handle and firm grain.***
- ***Improves buffing properties.***

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com



ZSIVIRA

TENSYN R7

Dicyandiamide Condensation Syntan

Usage Quantities:

Full grain upper leather: 3 to 5 %

Corrected grain upper leather: 2 to 5%

Split Suedes 2 to 4 %

Upholstery 2 to 4%

Note : The product being combination of various raw materials, there are chances of variations in colour. The property and Application of the product will remain same.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com

Section 1 : Identification of the substance / mixture of the Company/Undertaking

1.1 PRODUCT IDENTIFIER

Trade Name : TENSYN TAK
Substance Name : Synthetic Organic Tanning Substance

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Auxiliary for leather industry.

Recommended restriction of use : No further relevant information available.

1.3 Details of Supplier of the Safety Data Sheet :

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

"Iyengar House" No.9.Arkeeshwarar Colony Main Road
Lakshmipuram, Chromepet, Chennai – 600 044. INDIA

Information provided by: Leather Chemical Division Tel : +91 9940 333 449

1.4 EMERGENCY CONTACT NUMBER : +91- 76676 20808 E MAIL : zsivira@jangroupindia.com

Section 2 : HAZARDS IDENTIFICATION

2.1 Classification of Substance of mixture

Buffering Inorganic Salts blended with Sodium Naphthalene sulfonic acid polycondensate

Classification according to Regulation (EC) No 1272/2008

No Need for classification according to GHS criteria for this product.

2.2 Label elements

This product does not require a hazard warning label in accordance with Globally Harmonized System (GHS) criteria.

Hazard Description : Not Applicable

2.3 Other Hazards

Not required

Section 3 : Composition / Information on Ingredients

Chemical Characterization : Mixtures

Composition Information :

INGREDIENT	CAS No.	%
Dicarboxylic acid	68603-89-2	10 – 20%
Sodium meta bi Sulfit	7757-82-6	5 – 15%
Sodium Naphthalene Sulfonic Acid condensate	9084-06-4	65 – 85%

Description : Retanning agent for Leather Tanning

Hazardous Ingredients : VOID

Dangerous Components : VOID

4.1 Description of First Aid Measures

General Information

Remove contaminated soaked clothing immediately and dispose of safely.

In the event of symptoms refer for medical treatment.

Inhalation

Remove the casualty into fresh air and keep him / her calm.
Refer to Medical treatment.

Skin Contact

In case of contact with skin wash off immediately with soap and water.

Eye Contact

In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice
Immediately.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5 : First Aid Measures

5.1 Extinguishing Media

Suitable extinguishing media :

Water
Alcohol-resistant foam
Dry Powder
Carbon dioxide

Unsuitable extinguishing Media :

No further relevant information available.

5.2 Special Hazards arising from the substance or mixture

In the event of fire the following can be released :

Harmful Vapours
Evolution of fumes/fog. The substance/mixture mentioned can be released in case of fire.

5.3 Advice for Fire Fighters

Special Protective equipment :

Wear a self-contained breathing apparatus, and full protective clothing when fighting chemical fires.
Fight larger fire with water or alcohol resistant foam spray.

Further additional information :

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Do not inhale explosion and / or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures :

Avoid contact with eyes and skin.

6.2 Environmental precautions

Donot discharge into the drains/surface water / ground waters.

6.3 Methods and maerial for containment and cleaning up

Take up with absorbent material. E.g. General Purpose binder.

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

Observe Section 7 of the Safety Data Sheet

Observe Section 8 of the Safety Data Sheet

Observe Section 13 of the Safety Data Sheet

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary.

Information about fire and explosion protection :

No special measures necessary.

General Information:

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Observe section 6 of the Safety Data Sheet.

Observe Section 8 of the Safety Data Sheet

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by store rooms and receptacles :

No special measures necessary.

Information about storage in one common storage facility:

No further relevant information available.

Further information about storage conditions :

No further relevant information available.

7.3 Specific end use(s)

Intended to be used in leather tanning as tanning auxiliary.

Further Information about specific end use :

No further relevant information available.

8.EXPOSURE CONTROLS AND 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 :

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information : The lists valid during the making were used as basis.

8.2 Exposure Controls

Components with workplace control parameters

Formaldehyde, 50-00-0; (Content (W/W): < 0.05 %)
CLV 0.3 ppm (ACGIHTLV)
TWA value 1.5 mg/m³ ; 1.0 ppm (OEL (IN))
STEL value 3 mg/m³ ; 2 ppm (OEL (IN))

Personal Protective Equipment/ General protective and hygiene measures

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.

Respiratory Protection :

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand Protection :

Chemicals resistant protective gloves (EN374)
Suitable materials also with prolonged, direct contact (Recommended : Protective Index 6, corresponding > 480 minutes of permeation time according to EN 374 part 3 : Level 6): Example : Nitrile Rubber NBR (0.4mm), Chloroprene rubber (0.5mm), Polyvinylchloride (0.7mm) and other specifically available chemical protection gloves.

Supplimentary Information :

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

Eye Protection :

Safety glasses with side-shields (Frame Goggles e.g. EN166)

Body Protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	Powder
pH – value (100g/l) at 25°C	6.5 – 8.0
Colour	Off White
Odour	Product Specific
Odour threshold	No applicable informat available
Change in Condition	
Melting Point/Freezing Point	>260°C
Initial boiling point and boiling range	>150°C

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Flash point	>100°C (ASTM D92)
Flammability(solid, gaseous)	Not applicable
Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Auto Ignition Temperature	Product is not self igniting
Explosive Properties	Not Explosive
Explosion Limits:	
Lower	Not Determined
Upper	Not Determined
Vapour Pressure	Not Determined
Density	Not Determined
Relative Density	Not Determined
Vapour Density	Not Determined
Evaporation Rate	Not Determined
Solubility in Water	Soluble completely
Partition coefficient : n-octanol/water	Not Determined
Viscosity dynamic / kinematic	Not Determined

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated

10.2 Chemical Stability

Thermal decomposition / conditions to be avoided :

No decomposition if used and stored according to specifications.

10.3 Possibility of Hazardous reactions

Reacts with various metals

10.4 Conditions to avoid : No further relevant information available

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products : No Hazardous decomposition products known

SECTION 11. TOXICOLOGICAL PROPERTIES

11.1 Information on toxicological effects :

Acute toxicity:

Harmful if swallowed

Experimental / Calculated data

LD50 values relevant for calculation >2.000 mg/kg

Primary Irritant Effect:

Skin Corrosion / irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation and damage if not treated properly.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

Germ Cell Mutagenicity : Based on the available data the classification criteria are not met.

Carcinogenicity : Based on the available data the classification criteria are not met.

Reproductive toxicity : Based on the available data the classification criteria are not met.

STOT-Single exposure: Based on the available data the classification criteria are not met.

STOT –repeated exposure :

Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure : Inhalation

Aspiration Hazard : Based on the available data the classification criteria are not met.

SECTION 12-ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity : LC50 >10mg/l

12.2 Data on elimination (persistence and degradability)

General Information : Based on available data no further relevant information available

12.3 Bio accumulative potential

Significant accumulation in organisms is not to be expected.

Discharge into the environment must be avoided.

12.4 Mobility on Soil :

Assessment transport between environmental compartments :

Adsorption in soil : No relevant data available.

Additional ecological information :

This product has not been tested. The statement on ecotoxicology have been derived from the properties of the individual components.

SECTION 13 . DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods :

Recommendations :

Can be taken to an incineration plant, if relevant regulations in force are being observed and, if necessary, after consulting the waste disposal management agency, respectively the relevant authorities.

Do not allow product to reach the drainage.

Contaminated / Uncleaned Packaging :

Packaging are to be emptied as far as possible and may be reused after appropriate cleansing. If Packagings cannot be cleaned, they are to be disposed of in the same manner as the product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number	Not Applicable
14.2 UN Proper shipping name	Not Applicable
14.3 Transport Hazard Classes	Not Applicable
14.4 Packing Group	Not Applicable
14.5 Environmental Hazards	Not Applicable
14.6 Special Precautions for user	None Known

14.7 Transport in bulk according to Annex II of MARPOL 73/78 Aand IBC code : Not required

SECTION 15. REGULATORY INFORMATION

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

Substance of very high concern (SVHC) according to REACH, Article 57 : Not required
1005/2009/EC (on substances that deplete the ozone layer) : Not Required
850/2004/EC (On persistent Organic Pollutants) : Not Required
649/2012/EU (Concerning the export and import of hazardous chemicals) : Not Required
2012/18/EU (on the control of major accident hazards involving dangerous substances) : Not Required
Water Hazard Class (FRG) : 1
Storage Class (TRGS 510) (FRG) : 10

15.2 Chemical Safety Assessment :

A Chemical Safety Assessment has not been carried out as chemical safety assessments are not necessary for mixtures.

SECTION 16. OTHER INFORMATION

The information on this safety data sheet is based on our present state of knowledge. The data supplied and recommendations can not be taken as a guarantee on specific properties of the products described or their suitability for a particular application. As the use conditions of the product are out of our company control, it is responsibility of the user to determine the safety of the use condition. Existing acts, rules and regulations must be observed by the recipient of our products under his / her / their own responsibility.

The product is intended to be used in Leather Industry as Leather Tanning Auxiliary.



Smart Chemistry

ZSIVIRA

TENSYN TAK

Multifunctional Neutralising Syntan for uppers

Chemical composition	<i>Blend of Complex inorganic and organic agents with buffering action.</i>
Solids	<i>95%</i>
Appearance	<i>Whitish powder</i>
pH - value 1 : 10	<i>7.5 - 9</i>
Charge	<i>anionic</i>
Storage	<i>Up to 1 year at temperatures between 5 and 40° C. Donot expose to moisture.</i>
Dilution	<i>Added Undiluted</i>

Field of application :

In the neutralising and basification of upper and upholstery.

Properties :

- *With TENSYN TAK optimum Neutralization is achieved and no chance of excess neutralization .*
- *TENSYN TAK reacts with the unbound chromium salts and converts them into favourable tanning complexes thereby reducing consumption of chrome tanning agents.*
- *TENSYN TAK having strong complexing acid groups reacts with excess sulphuric acid in the chrome complex and buffers it so that the leather will not loose its strength.*
- *TENSYN TAK helps to obtain uniform and leveled dyeing with anionic dyestuffs.*
- *TENSYN TAK enhances the penetration of fat liquors, vegetable tannins and other retanning agents.*
- *TENSYN TAK helps to drastically reduce Chrome VI formation .*

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com



ZSIVIRA

TENSYN TAK

Multifunctional Neutralising Syntan for uppers

Usage Quantities:

***In Neutralisation of
Chrome Tanned Leather :***

***0.5% to 3 % TENSYN TAK
0.5% to 1.5% SODA BI CARB***

In Chrome Basification :

***0.5% to 2% TENSYN TAK
0.25% TO 0.5% SODA BI CARB***

Note : The product being combination of various raw materials, there are chances of variations in colour. The property and Application of the product will remain same.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com

Section 1 : Identification of the substance / mixture of the Company/Undertaking

1.1 PRODUCT IDENTIFIER

Trade Name : **TENSYN NN**
Substance Name : Synthetic Organic Tanning Substance

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Auxiliary for leather industry.

Recommended restriction of use : No further relevant information available.

1.3 Details of Supplier of the Safety Data Sheet :

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

"Iyengar House" No.9.Arkeeshwarar Colony Main Road
Lakshmipuram, Chromepet, Chennai – 600 044. INDIA
Information provided by: Leather Chemical Division Tel : +91 9940 333 449

1.4 EMERGENCY CONTACT NUMBER : +91- 76676 20808 E MAIL : zsivira@jangroupindia.com

Section 2 : HAZARDS IDENTIFICATION

2.1 Classification of Substance of mixture

Naphthalene sulfonic acid-formaldehyde-polycondensate as sodium salt (CAS No. : 9084-06-4)

Classification according to Regulation (EC) No 1272/2008

No Need for classification according to GHS criteria for this product.

2.2 Label elements

This product does not require a hazard warning label in accordance with Globally Harmonized System (GHS) criteria.

Hazard Description : Not Applicable

2.3 Other Hazards

Not required

Section 3 : Composition / Information on Ingredients

Chemical Characterization : Mixtures

Composition Information :

Naphthalene sulfonic acid-formaldehyde-polycondensate as sodium salt (CAS No.: 9084-06-4)

Description : Retanning agent for Leather Tanning

Hazardous Ingredients : VOID

Dangerous Components : VOID

4.1 Description of First Aid Measures

General Information

Remove contaminated soaked clothing immediately and dispose of safely.
In the event of symptoms refer for medical treatment.

Inhalation

Remove the casualty into fresh air and keep him / her calm.
Refer to Medical treatment.

Skin Contact

In case of contact with skin wash off immediately with soap and water.

Eye Contact

In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice immediately.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5 : First Aid Measures

5.1 Extinguishing Media

Suitable extinguishing media :

Water

Alcohol-resistant foam

Dry Powder

Carbon dioxide

Unsuitable extinguishing Media :

No further relevant information available.

5.2 Special Hazards arising from the substance or mixture

In the event of fire the following can be released :

Harmful Vapours

Evolution of fumes/fog. The substance/mixture mentioned can be released in case of fire.

5.3 Advice for Fire Fighters

Special Protective equipment :

Wear a self-contained breathing apparatus and full protective clothing when fighting chemical fires.

Fight larger fire with water or alcohol resistant foam spray.

Further additional information :

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Do not inhale explosion and / or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures :

Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not discharge into the drains/surface water / ground waters.

6.3 Methods and maerial for containment and cleaning up

Take up with absorbent material. E.g. General Purpose binder.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

Observe Section 7 of the Safety Data Sheet
Observe Section 8 of the Safety Data Sheet
Observe Section 13 of the Safety Data Sheet

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary.

Information about fire and explosion protection :
No special measures necessary.

General Information:

Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Observe section 6 of the Safety Data Sheet.
Observe Section 8 of the Safety Data Sheet

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by store rooms and receptacles :

No special measures necessary.

Information about storage in one common storage facility:

No further relevant information available.

Further information about storage conditions :

No further relevant information available.

7.3 Specific end use(s)

Intended to be used in leather tanning as tanning auxiliary.

Further Information about specific end use :

No further relevant information available.

8.EXPOSURE CONTROLS AND 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 :

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information : The lists valid during the making were used as basis.

8.2 Exposure Controls

Components with workplace control parameters

Formaldehyde, 50-00-0; (Content (W/W): < 0.05 %)
CLV 0.3 ppm (ACGIHTLV)

TWA value 1.5 mg/m³ ; 1.0 ppm (OEL (IN))
STEL value 3 mg/m³ ; 2 ppm (OEL (IN))

Personal Protective Equipment/ General protective and hygiene measures

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.

Respiratory Protection :

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand Protection :

Chemicals resistant protective gloves (EN374)
Suitable materials also with prolonged, direct contact (Recommended : Protective Index 6, corresponding > 480 minutes of permeation time according to EN 374 part 3 : Level 6): Example : Nitrile Rubber NBR (0.4mm), Chloroprene rubber (0.5mm), Polyvinylchloride (0.7mm) and other specifically available chemical protection gloves.

Supplimentary Information :

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

Eye Protection :

Safety glasses with side-shields (Frame Goggles e.g. EN166)

Body Protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	Powder
pH – value (100g/l) at 25°C	6.0 – 8.0
Colour	Beige to Brown
Odour	Product Specific
Odour threshold	No applicable informat available
Change in Condition	
Melting Point/Freezing Point	>260°C
Initial boiling point and boiling range	>150°C
Flash point	>100°C (ASTM D92)
Flammability(solid, gaseous)	Not applicable
Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Auto Ignition Temperature	Product is not self igniting
Explosive Properties	Not Explosive
Explosion Limits:	
Lower	Not Determined

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Upper	Not Determined
Vapour Pressure	Not Determined
Density	Not Determined
Relative Density	Not Determined
Vapour Density	Not Determined
Evaporation Rate	Not Determined
Solubility in Water	Soluble completely
Partition coefficient : n-octanol/water	Not Determined
Viscosity dynamic / kinematic	Not Determined

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated

10.2 Chemical Stability

Thermal decomposition / conditions to be avoided :

No decomposition if used and stored according to specifications.

10.3 Possibility of Hazardous reactions

Reacts with various metals

10.4 Conditions to avoid : No further relevant information available

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products : No Hazardous decomposition products known

SECTION 11. TOXICOLOGICAL PROPERTIES

11.1 Information on toxicological effects :

Acute toxicity:

Harmful if swallowed

Experimental / Calculated data

LD50 values relevant for calculation >2.000 mg/kg

Primary Irritant Effect:

Skin Corrosion / irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation and damage if not treated properly.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

Germ Cell Mutagenicity : Based on the available data the classification criteria are not met.

Carcinogenicity : Based on the available data the classification criteria are not met.

Reproductive toxicity : Based on the available data the classification criteria are not met.

STOT-Single exposure: Based on the available data the classification criteria are not met.

STOT –repeated exposure :

Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure : Inhalation

Aspiration Hazard: Based on the available data the classification criteria are not met.

SECTION 12-ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity : LC50 >10mg/l

12.2 Data on elimination (persistence and degradability)

General Information : Based on available data no further relevant information available

12.3 Bio accumulative potential

Significant accumulation in organisms is not to be expected.
Discharge into the environment must be avoided.

12.4 Mobility on Soil :

Assessment transport between environmental compartments :
Adsorption in soil : No relevant data available.

Additional ecological information :

This product has not been tested. The statement on ecotoxicology have been derived from the properties of the individual components.

SECTION 13 . DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods :

Recommendations :

Can be taken to an incineration plant, if relevant regulations in force are being observed and, if necessary, after consulting the waste disposal management agency, respectively the relevant authorities.

Do not allow product to reach the drainage.

Contaminated / Uncleaned Packaging :

Packaging are to be emptied as far as possible and may be reused after appropriate cleansing. If Packagings cannot be cleaned, they are to be disposed of in the same manner as the product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number	Not Applicable
14.2 UN Proper shipping name	Not Applicable
14.3 Transport Hazard Classes	Not Applicable
14.4 Packing Group	Not Applicable
14.5 Environmental Hazards	Not Applicable
14.6 Special Precautions for user	None Known

14.7 Transport in bulk according to Annex II of MARPOL 73/78 Aand IBC code : Not required

SECTION 15. REGULATORY INFORMATION

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

Substance of very high concern (SVHC) according to REACH, Article 57 : Not required

1005/2009/EC (on substances that deplete the ozone layer) : Not Required

850/2004/EC (On persistent Organic Pollutants) : Not Required

649/2012/EU (Concerning the export and import of hazardous chemicals) : Not Required

2012/18/EU (on the control of major accident hazards involving dangerous substances) : Not Required

Water Hazard Class (FRG) : 1

Storage Class (TRGS 510) (FRG) : 10

15.2 Chemical Safety Assessment :

A Chemical Safety Assessment has not been carried out as chemical safety assessments are not necessary for mixtures.

SECTION 16. OTHER INFORMATION

The information on this safety data sheet is based on our present state of knowledge. The data supplied and recommendations can not be taken as a guarantee on specific properties of the products described or their suitability for a particular application. As the use conditions of the product are out of our company control, it is responsibility of the user to determine the safety of the use condition. Existing acts, rules and regulations must be observed by the recipient of our products under his / her / their own responsibility. The product is intended to be used in Leather Industry.



Smart Chemistry

ZSIVIRA

TENSYN NN

Neutralising Syntan

Chemical composition	<i>Naphthalene Sulfonic Acid condensation product</i>
Solids	<i>95 %</i>
Appearance	<i>Pale Brown powder</i>
pH - value 1 : 10	<i>6.5 to 8.0</i>
Charge	<i>Anionic</i>
Shelf life	<i>Up to 1 year at temperatures between 5 and 40° C.</i>
Dilution	<i>Added Undiluted</i>

Field of application

Neutralising of all types of chrome leather.

Properties

- *Provides through and through neutralisation with uniform pH through the leather.*
- *Enhances uniform distribution of vegetable extracts and avoids grain crack in vegetable tanning.*
- *Best suitable for washable articles and drum dyed articles.*
- *TENSYN NN provides leather firmness without disturbing grain smoothness or grain pattern.*
- *Enhances dye penetration and avoids dye patches.*

Usage Quantities:

Normally 1% to 3% is given depending upon leather and tannage requirement.

Note : The product being combination of various raw materials, there are chances of variations in colour. The property and Application of the product will remain same.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com

Section 1 : Identification of the substance / mixture of the Company/Undertaking

1.1 PRODUCT IDENTIFIER

Trade Name : **TENSYN OS**
Substance Name : Synthetic Organic Tanning Substance

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Auxiliary for leather industry.

Recommended restriction of use : No further relevant information available.

1.3 Details of Supplier of the Safety Data Sheet :

ZSIVIRA CHEMIE MERK PRIVATE LIMITED
"Iyengar House" No.9.Arkeeshwarar Colony Main Road
Lakshmipuram, Chromepet, Chennai – 600 044. INDIA
Information provided by: Leather Chemical Division Tel : +91 9940 333 449

1.4 EMERGENCY CONTACT NUMBER : +91- 76676 20808 E MAIL : zsivira@jangroupindia.com

Section 2 : HAZARDS IDENTIFICATION

2.1 Classification of Substance of mixture

Polycondensate of organic acids, partially neutralised.

Hazardous ingredients

Phenolsulfonic acid-urea-formaldehyde condensate, partially neutralized (polymer; starting materials listed in EINECS)

Content (W/W): $\geq 50\%$ - $\leq 70\%$

Hazard symbol(s): Xi

R-phrase(s): 36/38

Dicarboxylic Acid Mixture

Content (W/W): $\geq 5\%$ - $\leq 10\%$

EC-Number: 271-678-5

Hazard symbol(s): Xi

R-phrase(s): 41

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

Classification according to Regulation (EC) No 1272/2008

No Need for classification according to GHS criteria for this product.

2.2 Label elements

This product does not require a hazard warning label in accordance with Globally Harmonized System (GHS) criteria.

Hazard Description : Not Applicable

2.3 Other Hazards

Not required

Section 3 : Composition / Information on Ingredients**Chemical Characterization : Mixtures**

Chemical Nature: Phenol sulfonic acid- formaldehyde-polycondensate

Composition Information :

Polycondensate of organic acids, partially neutralised.

INGREDIENT	CAS No.	%
Phenolsulfonic acid-formaldehyde-polycondensate	53817-89-3	60 - 70%
Dicarboxylic acid	68603-89-2	5 - 10%
Sodium Sulfate	7757-82-6	5 - 10%
Naphthalenesulfonic Acid Formaldehyde Polycondensate	9084-06-4	10 - 30%

Description : Retanning agent for Leather Tanning**Section 4 : First Aid Measures****4.1 Description of First Aid Measures****General Information**

Remove contaminated soaked clothing immediately and dispose of safely.
In the event of symptoms refer for medical treatment.

Inhalation

Remove the casualty into fresh air and keep him / her calm.
Refer to Medical treatment.

Skin Contact

In case of contact with skin wash off immediately with soap and water.

Eye Contact

In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice
Immediately.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5 : First Aid Measures**5.1 Extinguishing Media**

Suitable extinguishing media :

Water

Alcohol-resistant foam

Dry Powder

Carbon dioxide

Unsuitable extinguishing Media :

No further relevant information available.

5.2 Special Hazards arising from the substance or mixture

In the event of fire the following can be released :

Harmful Vapours

Evolution of fumes/fog. The substance/mixture mentioned can be released in case of fire.

5.3 Advice for Fire Fighters

Special Protective equipment :
Wear a self-contained breathing apparatus. and full protective clothing when fighting chemical fires.
Fight larger fire with water or alcohol resistant foam spray.

Further additional information :

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Donot inhale explosion and / or combustion gases.

6.ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures :

Avoid contact with eyes and skin.

6.2 Environmental precautions

Donot discharge into the drains/surface water / ground waters.

6.3 Methods and maerial for containment and cleaning up

Take up with absorbent material. E.g. General Purpose binder.

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

Observe Section 7 of the Safety Data Sheet

Observe Section 8 of the Safety Data Sheet

Observe Section 13 of the Safety Data Sheet

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary.

Information about fire and explosion protection :

No special measures necessary.

General Information:

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Observe section 6 of the Safety Data Sheet.

Observe Section 8 of the Safety Data Sheet

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by store rooms and receptacles:

No special measures necessary.

Information about storage in one common storage facility:

No further relevant information available.

Further information about storage conditions :

No further relevant information available.

7.3 Specific end use(s)

Intended to be used in leather tanning as tanning auxiliary.

Further Information about specific end use :

No further relevant information available.

8. EXPOSURE CONTROLS AND 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 :

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information : The lists valid during the making were used as basis.

8.2 Exposure Controls

Personal Protective Equipment/ General protective and hygiene measures

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Respiratory Protection :

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand Protection :

Chemicals resistant protective gloves (EN374)

Suitable materials also with prolonged, direct contact (Recommended : Protective Index 6, corresponding > 480 minutes of permeation time according to EN 374 part 3 : Level 6): Example : Nitrile Rubber NBR

(0.4mm), Chloroprene rubber (0.5mm), Polyvinylchloride (0.7mm) and other specifically available chemical protection gloves.

Supplimentary Information :

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

Eye Protection :

Safety glasses with side-shields (Frame Goggles e.g. EN166)

Body Protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	Powder
pH – value (100g/l) at 25°C	5.5 – 6.0
Colour	Beige to Light Brown
Odour	Product Specific
Odour threshold	No applicable informat available
Change in Condition	
Melting Point/Freezing Point	>200°C (1013 hPa)
Initial boiling point and boiling range	>190°C
Flash point	>100°C (ASTM D92)
Flammability(solid, gaseous)	Not applicable
Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Auto Ignition Temperature	Product is not self igniting
Explosive Properties	Not Explosive
Explosion Limits:	
Lower	Not Determined
Upper	Not Determined
Vapour Pressure	Not Determined
Density	Not Determined
Relative Density	Not Determined
Vapour Density	Not Determined
Evaporation Rate	Not Determined
Solubility in Water	Soluble completely
Particent coefficient :n-octanol/water	Not Determined
Viscosity dynamic / kinematic	Not Determined

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated

10.2 Chemical Stability

Thermal decomposition / conditions to be avoided :

No decomposition if used and stored according to specifications.

10.3 Possibility of Hazardous reactions

Reacts with various metals

10.4 Conditions to avoid : No further relevant information available

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products : No Hazardous decomposition products known

SECTION 11. TOXICOLOGICAL PROPERTIES

11.1 Information on toxicological effects :

Acute toxicity:

Harmful if swallowed

Experimental / Calculated data

LD50 vlues relevant for calculation >2.000 mg/kg

Primary Irritant Effect:

Skin Corrosion / irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation and damage if not treated properly.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

CMR effects (Carcinogenity,Mutagenicity and toxicity for reproduction):

Germ Cell Mutagenicity : Based on the available data the classification criteria are not met.

Carcenogenicity : Based on the available data the classification criteria are not met.

Reproductive toxicity : Based on the available data the classification criteria are not met.

STOT-Single exposure: Based on the available data the classification criteria are not met.

STOT –repeated exposure :

Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure : Inhalation

Aspiration Hazard: Based on the available data the classification criteria are not met.

SECTION 12-ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Todicity : LC50 >10mg/l

12.2 Data on elimination (persistence and degradability)

General Information : Based on available data no further relevant information available

12.3 Bio accumulative potential

Significant accumulation in organisms is not to be expected.

Discharge into the environment must be avoided.

12.4 Mobility on Soil :

Assessment transport between environmental compartments :

Adsorption in soil : No relevant data available.

Additional ecological information :

This product has not been tested. The statement on ecotoxicology have been derived from the properties of the individual components.

SECTION 13 . DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods :

Recommendations :

Can be taken to an incineration plant, if relevant regulations in force are being observed and, if necessary, after consulting the waste disposal management agency, respectively the relevant authorities.

Do not allow product to reach the drainage.

Contaminated / Uncleaned Packaging :

Packaging are to be emptied as far as possible and may be reused after appropriate cleansing. If Packaging cannot be cleaned, they are to be disposed of in the same manner as the product.

SECTION 14. TRANSPORT INFORMATION

14.1 IATA

Not Restricted

14.2 ICAO

Not Restricted

14.3 Air transport ICA0 – TI and IATA –

NON-DGR

14.4 UN number

Not Applicable

14.4 UN Proper shipping name

Not Applicable

14.6 Transport Hazard Classes

Not Applicable

14.7 Packing Group

Not Applicable

14.8 Environmental Hazards

Not Applicable

14.9 Special Precautions for user

None Known

14.10 Transport in bulk according to Annex II of MARPOL 73/78 A and IBC code : Not required

14.11 DGR REGULATIONS :

Land transport ADR / RID : (Cross Border)

ARD / RID – GGVS / E Class : -- --

Maritime transport IMDG :

IMDG Class : -- --

Air transport ICA0 – TI and IATA – NON DGR:

ICAO / IATA Class

SECTION 15. REGULATORY INFORMATION

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

Substance of very high concern (SVHC) according to REACH, Article 57 : Not required
1005/2009/EC (on substances that deplete the ozone layer) : Not Required
850/2004/EC (On persistent Organic Pollutants) : Not Required
649/2012/EU (Concerning the export and import of hazardous chemicals) : Not Required
2012/18/EU (on the control of major accident hazards involving dangerous substances) :
Not Required

Water Hazard Class (FRG) : 1
Storage Class (TRGS 510) (FRG) : 10

15.2 Chemical Safety Assessment :

A Chemical Safety Assessment has not been carried out as chemical safety assessments are not necessary for mixtures.

SECTION 16. OTHER INFORMATION

The information on this safety data sheet is based on our present state of knowledge. The data supplied and recommendations can not be taken as a guarantee on specific properties of the products described or their suitability for a particular application. As the use conditions of the product are out of our company control, it is responsibility of the user to determine the safety of the use condition. Existing acts, rules and regulations must be observed by the recipient of our products under his / her / their own responsibility. The product is intended to be used in Leather Industry as Leather Tanning Auxiliary.



Smart Chemistry

ZSIVIRA

TENSYN OS

Replacement Syntan

Chemical composition	Phenol condensation product
Solids	98 %
Appearance	Pale Tan powder
pH - value 1 : 10	5.5 to 6.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

Field of application :

In the retanning of neutralised leather.

Properties :

- *Gives a soft leather with a full handle and a fine grain.*
- *Good filling properties*
- *Allows an even dyeing without patch.*

Usage Quantities:

In the Softy leather: 3 to 6 %

Corrected grain leather: 3% to 4%

Garment leather: 3% to 5%

Note : *The product being combination of various raw materials, there are chances of variations in colour. The property and Application of the product will remain same.*

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

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